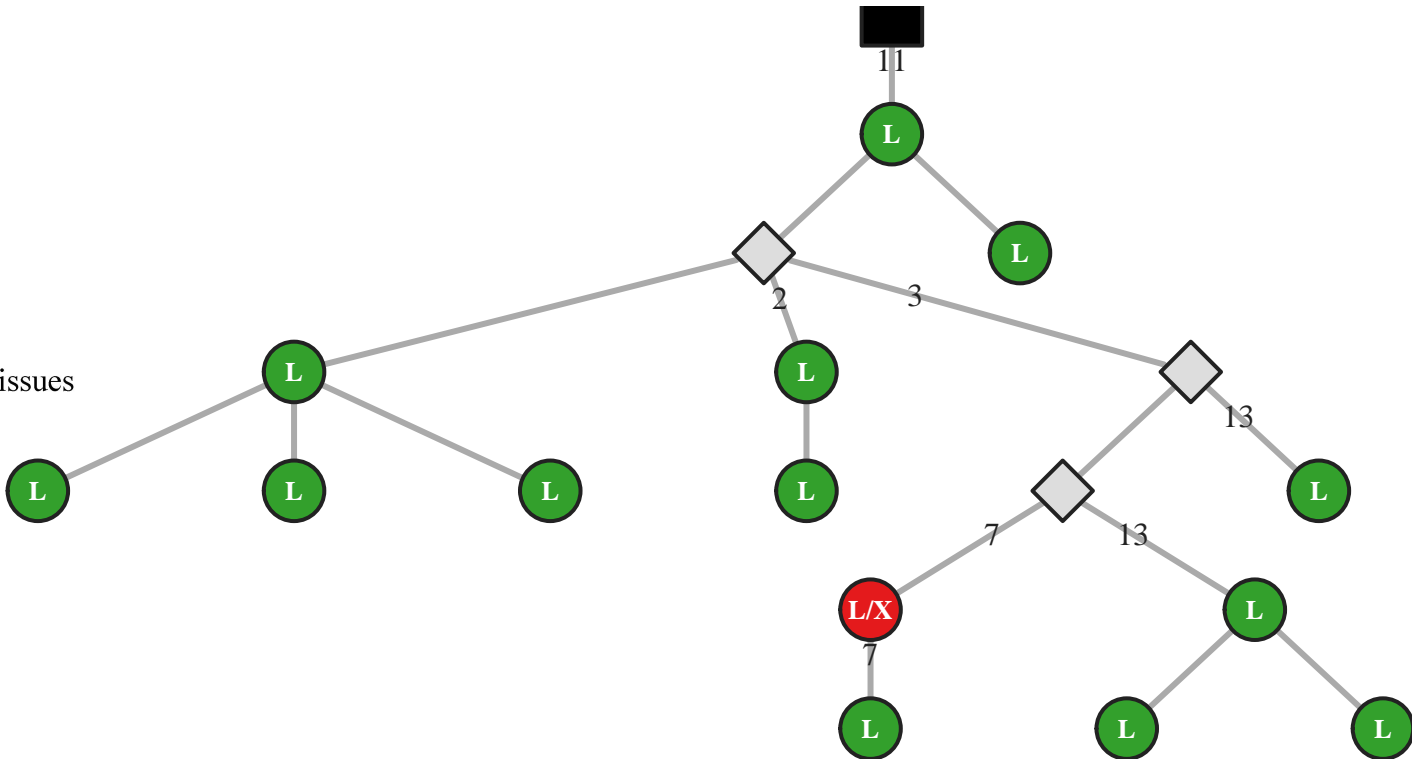
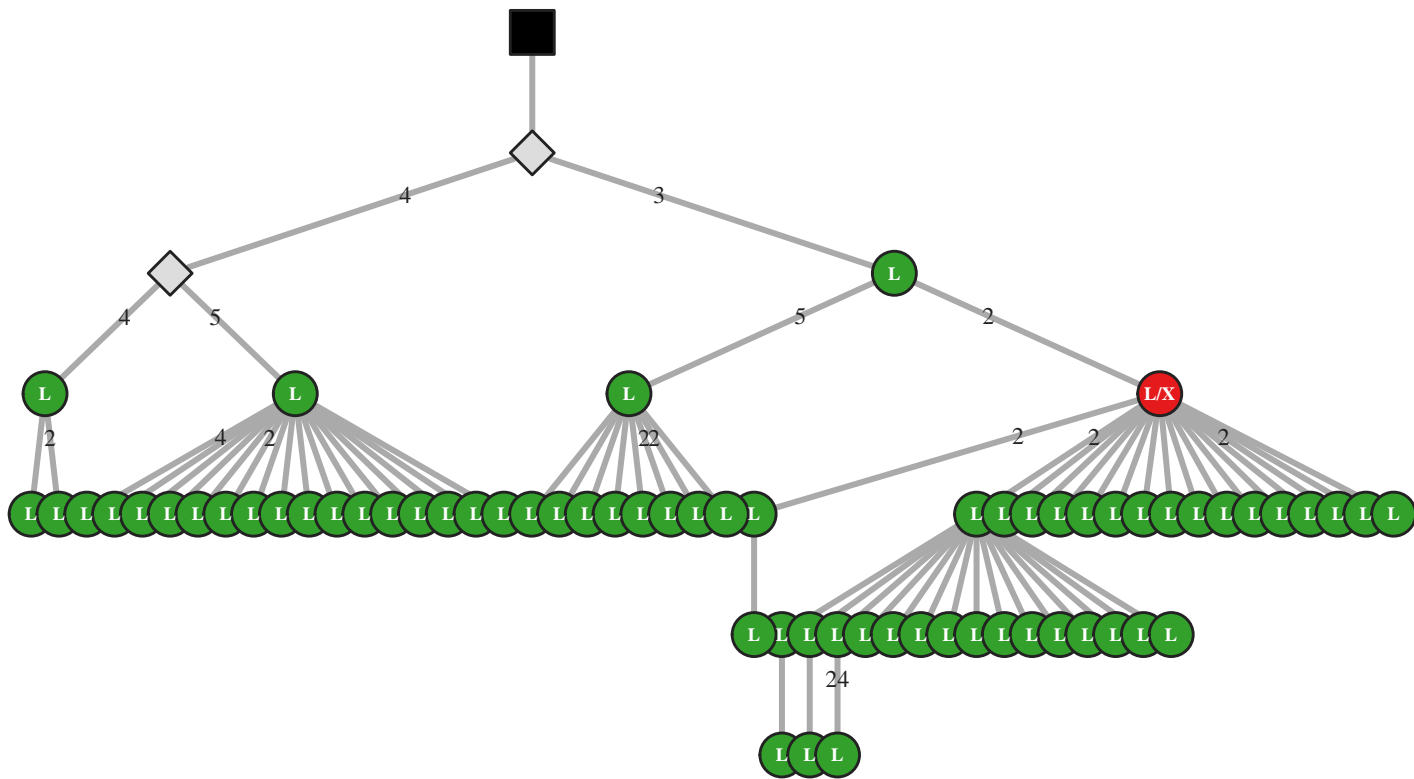


M3 IgA IGHV1-18/J1 54bp (13993)

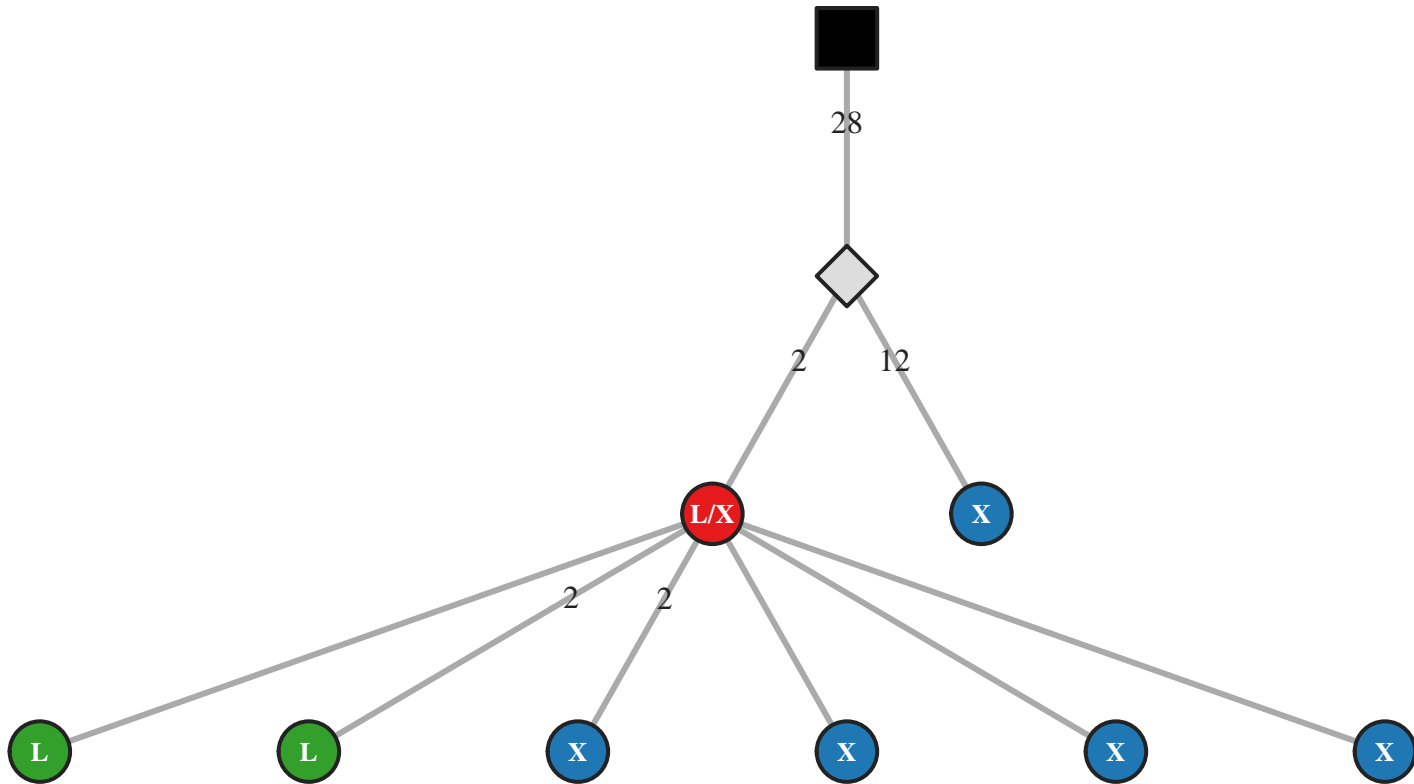
- Germline
- ◇ Inferred
- C Choroid plexus
- P Pia mater
- W Cortex
- X Lesion
- L CLN
- S Spleen
- Multiple CNS tissues
- Peripheral and CNS tissues



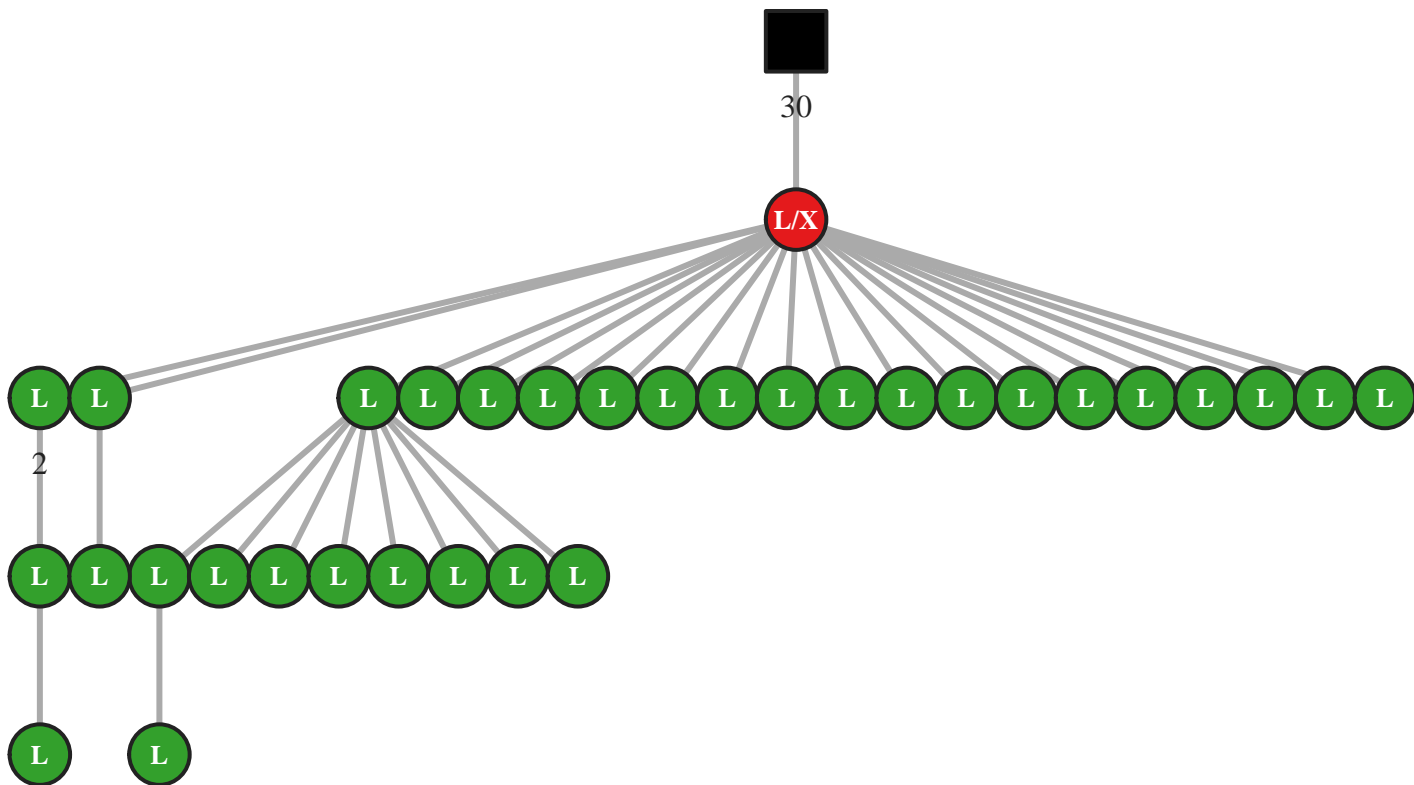
M3 IgG IGHV1-18/J3 57bp (10735)



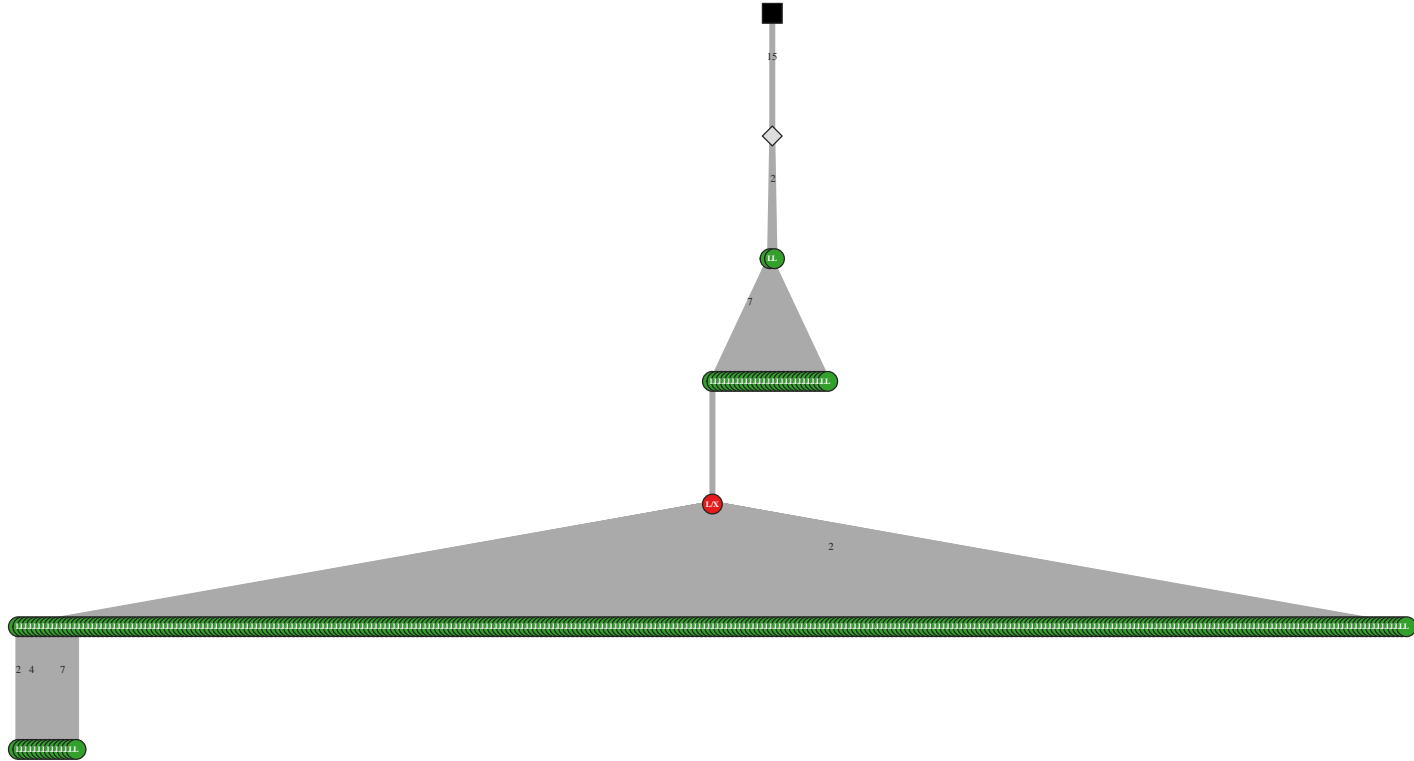
M3 IgG IGHV1-18/J4 39bp (2690)



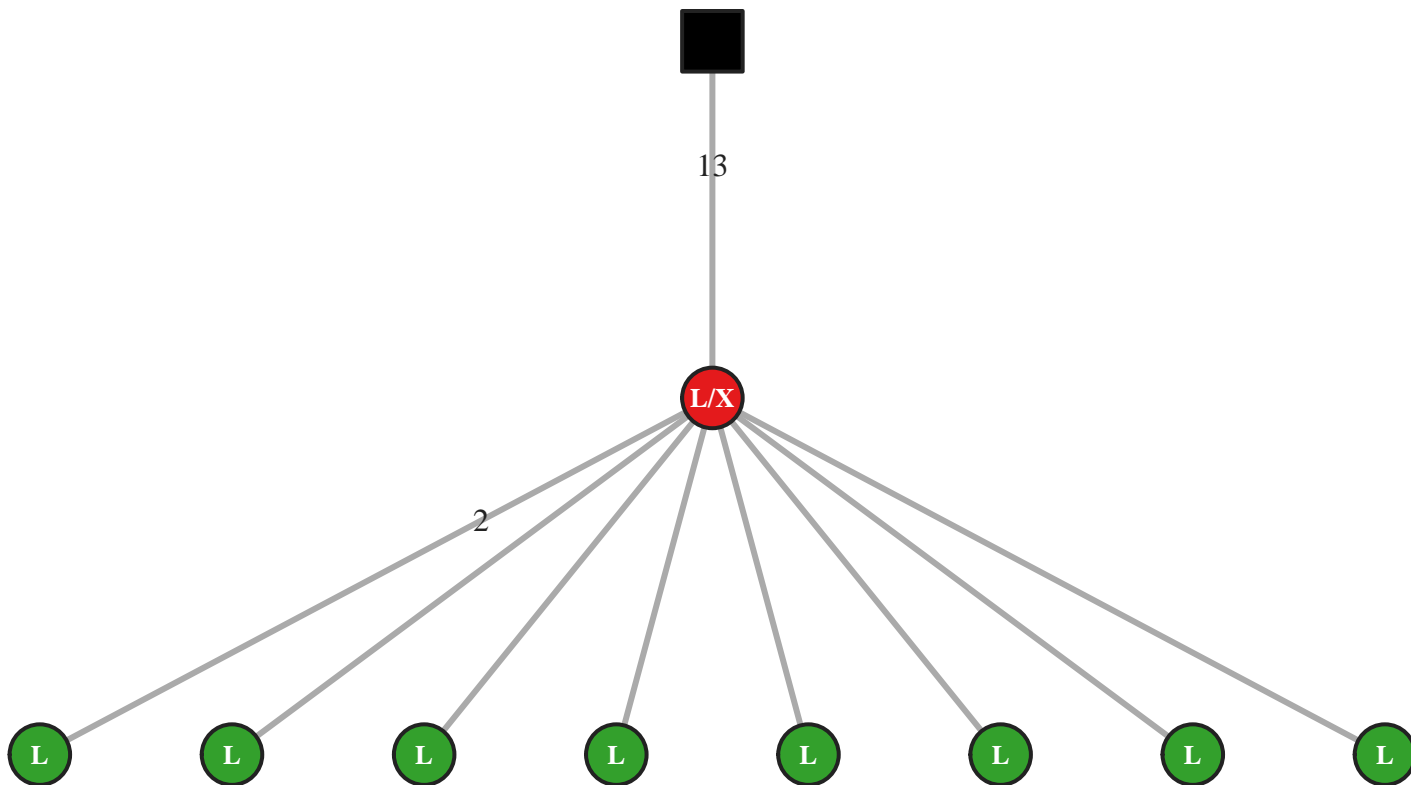
M3 IgG IGHV1-18/J4 42bp (10743)



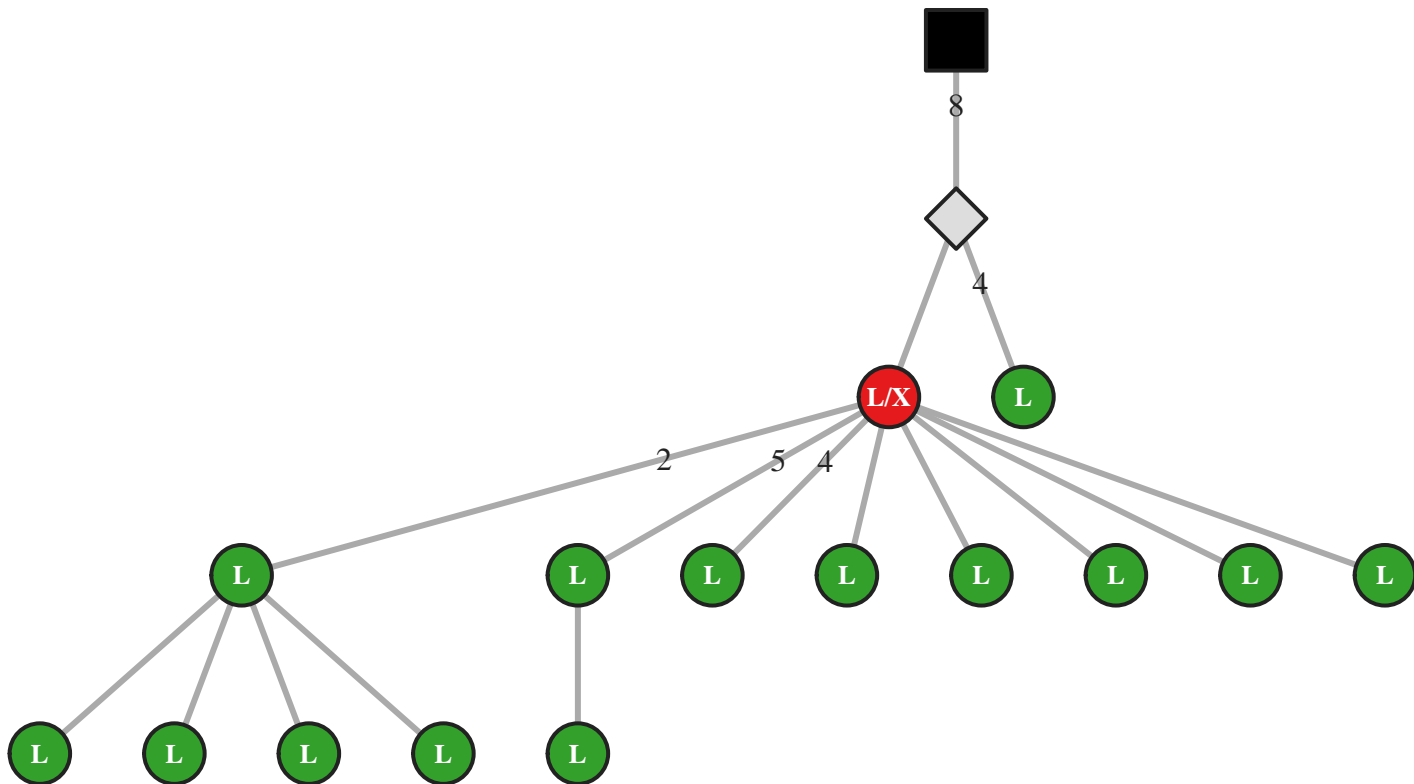
M3 IgA IGHV1-18/J4 45bp (14001)



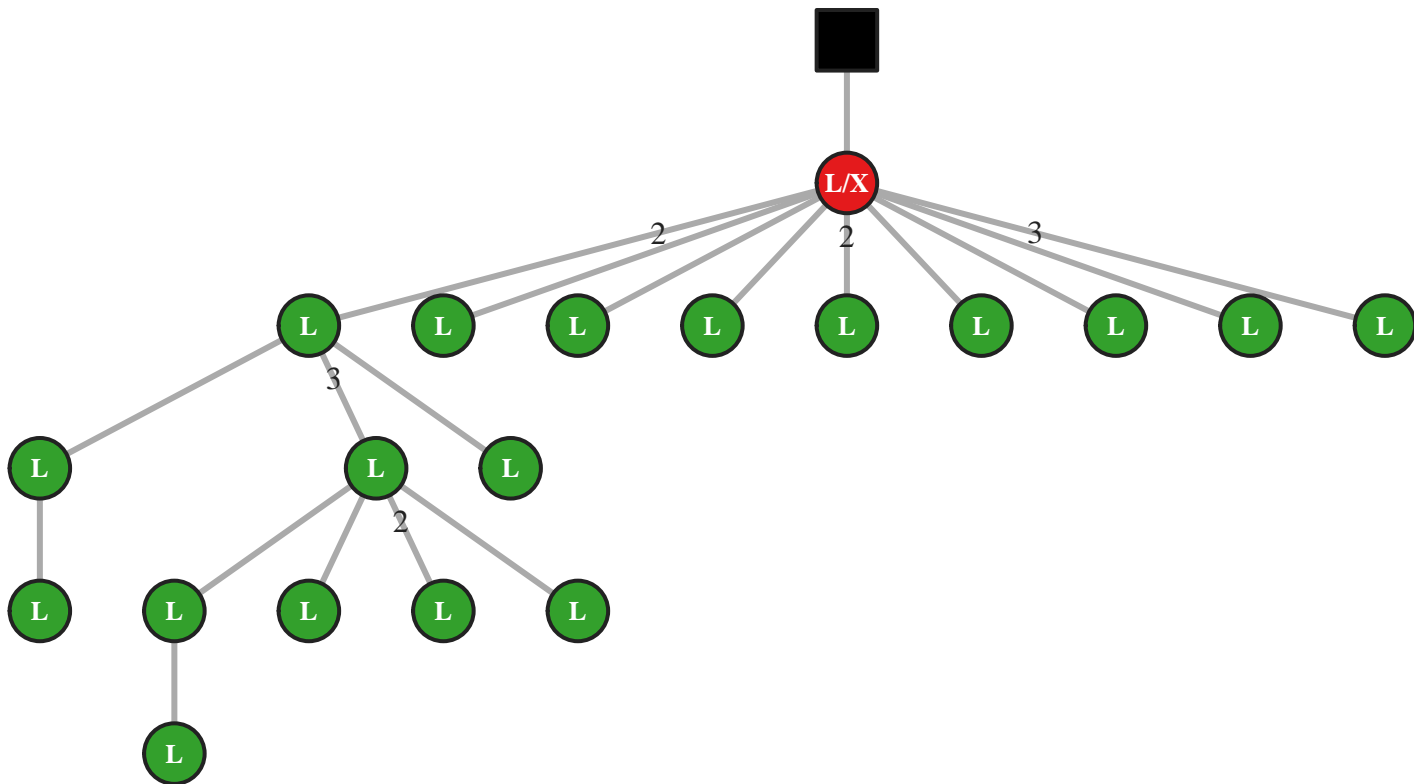
M3 IgG IGHV1-18/J4 51bp (2711)



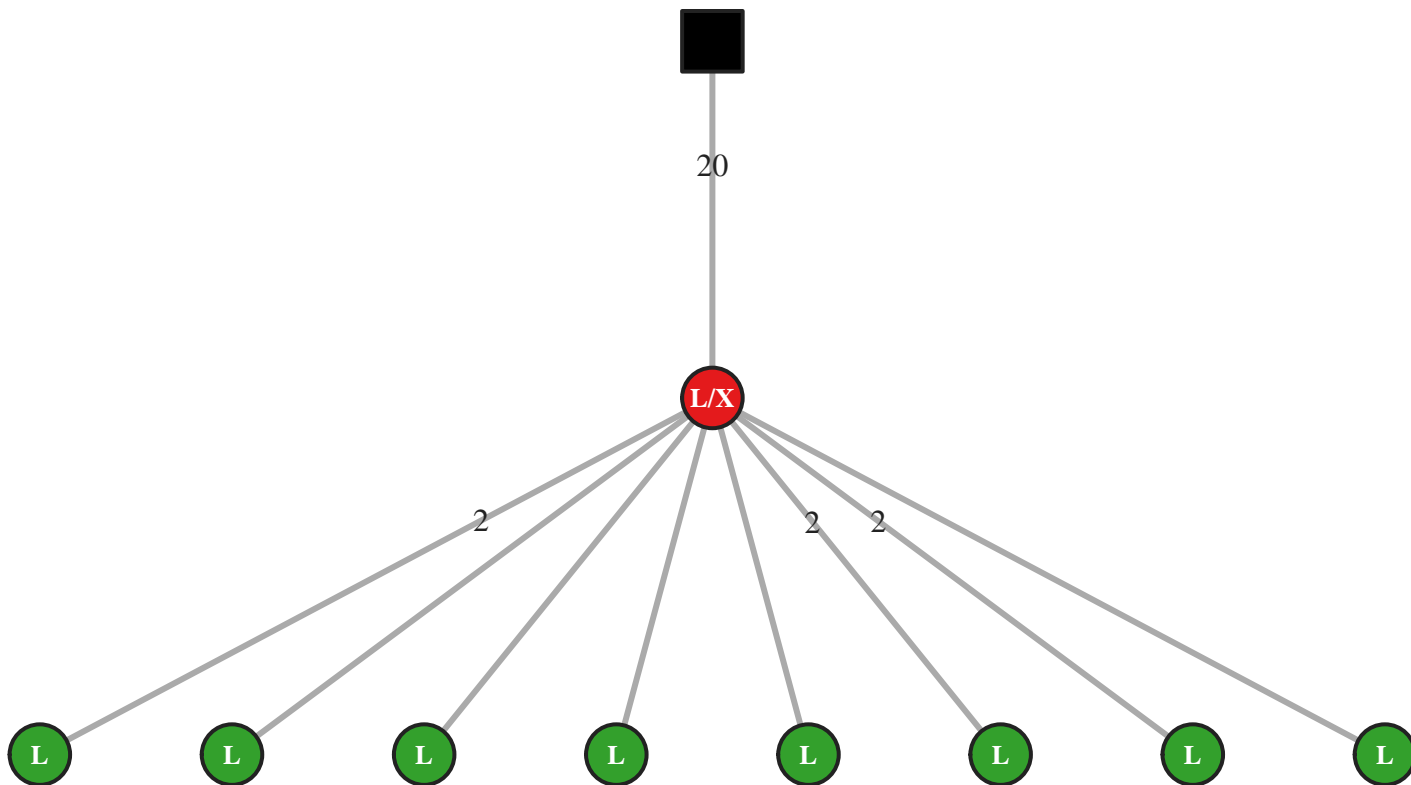
M3 IgG IGHV1-18/J4 54bp (10760)



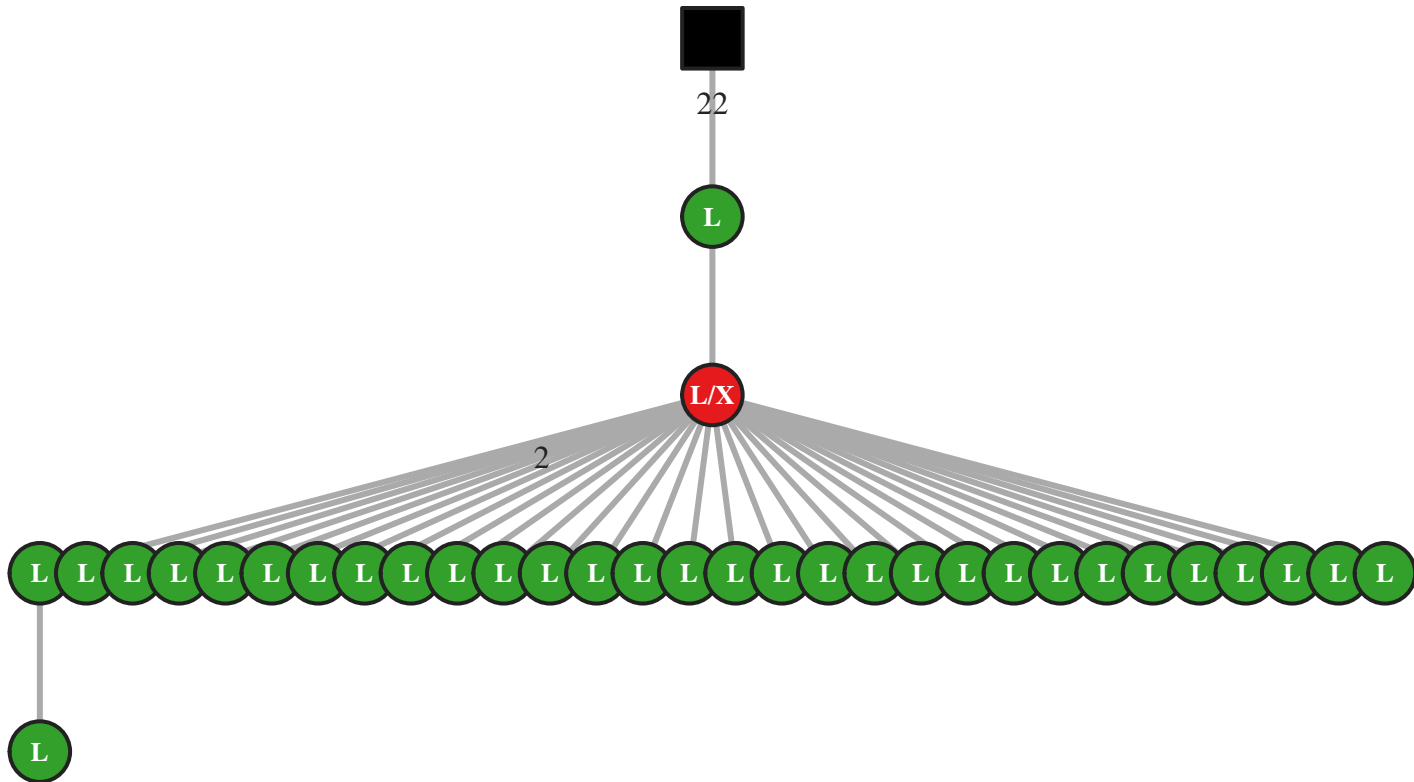
M3 IgG IGHV1-18/J5 48bp (14517)



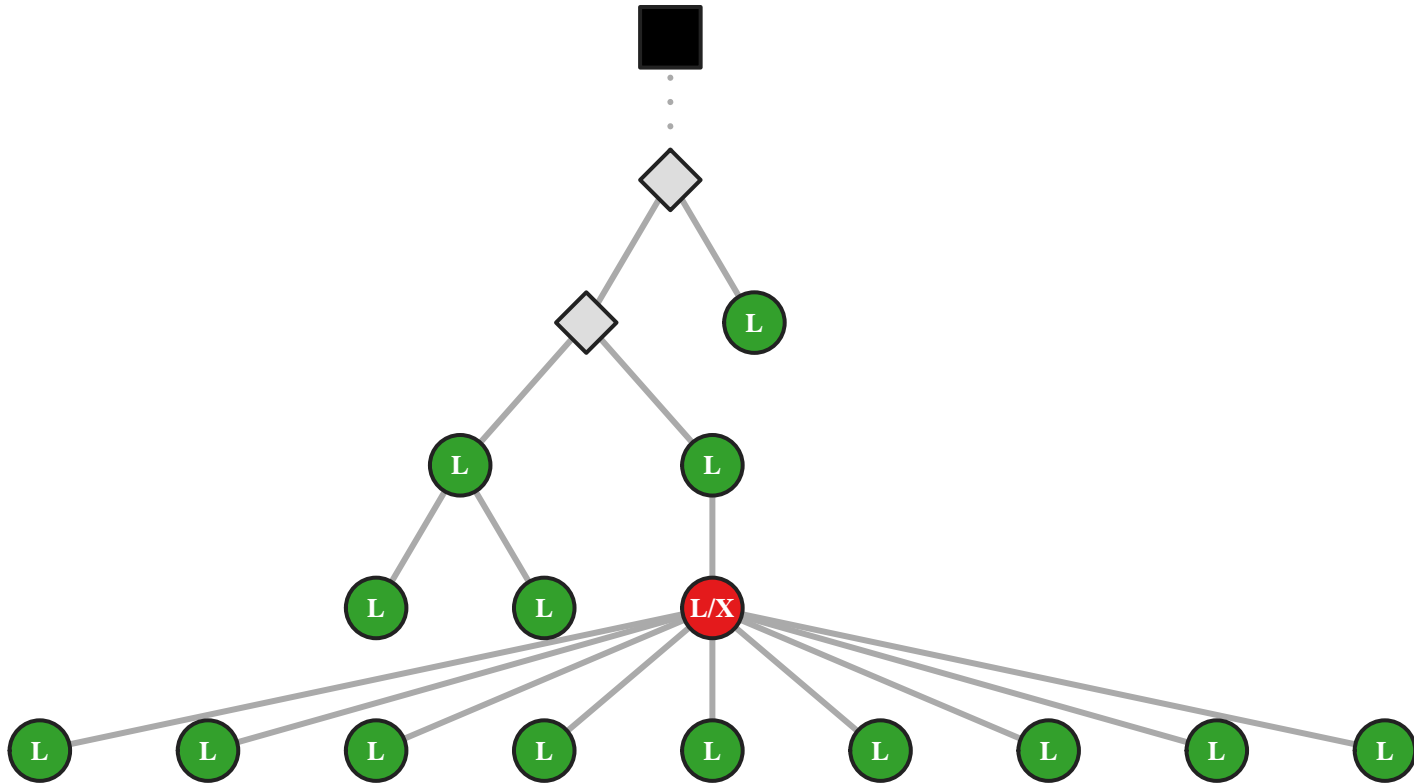
M3 IgG IGHV1-18/J5 63bp (6729)



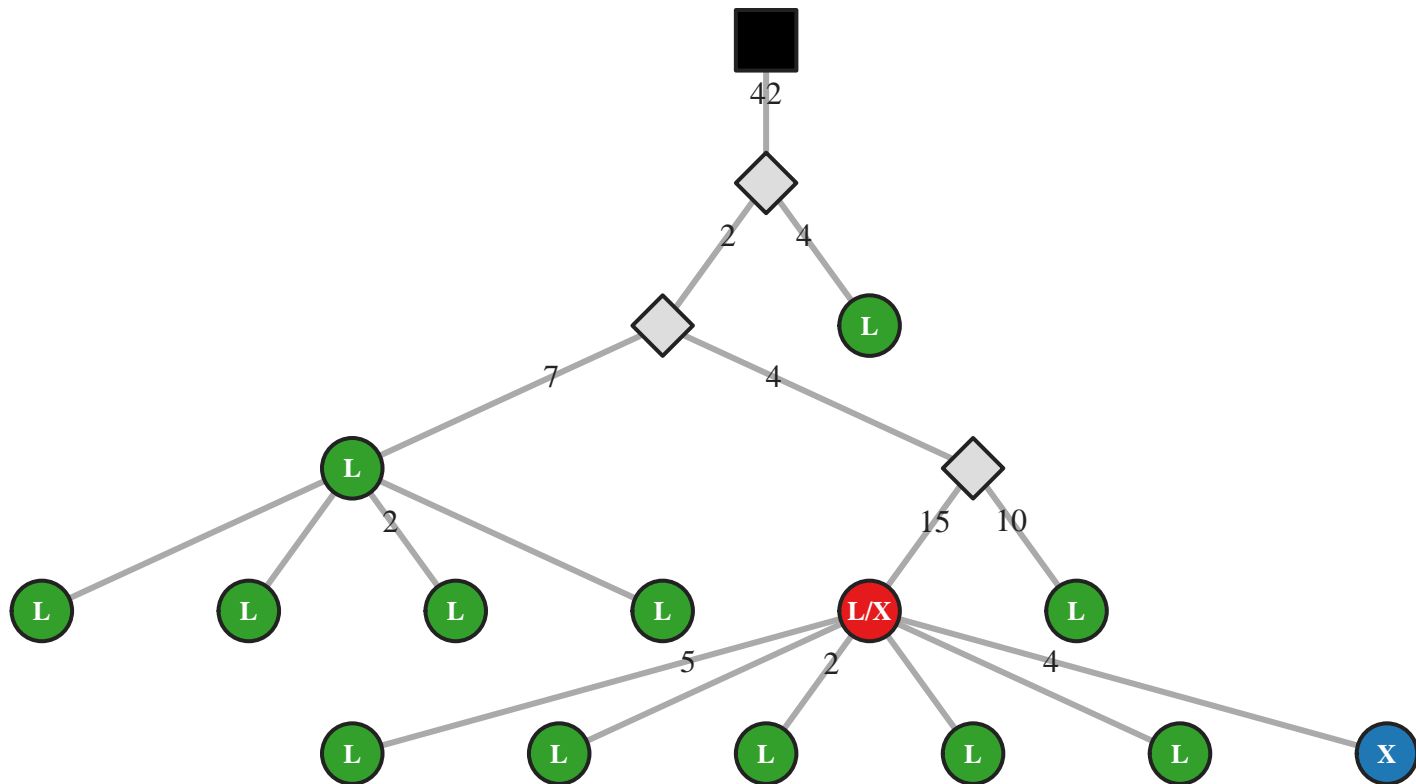
M3 IgG IGHV1-18/J6 60bp (2735)



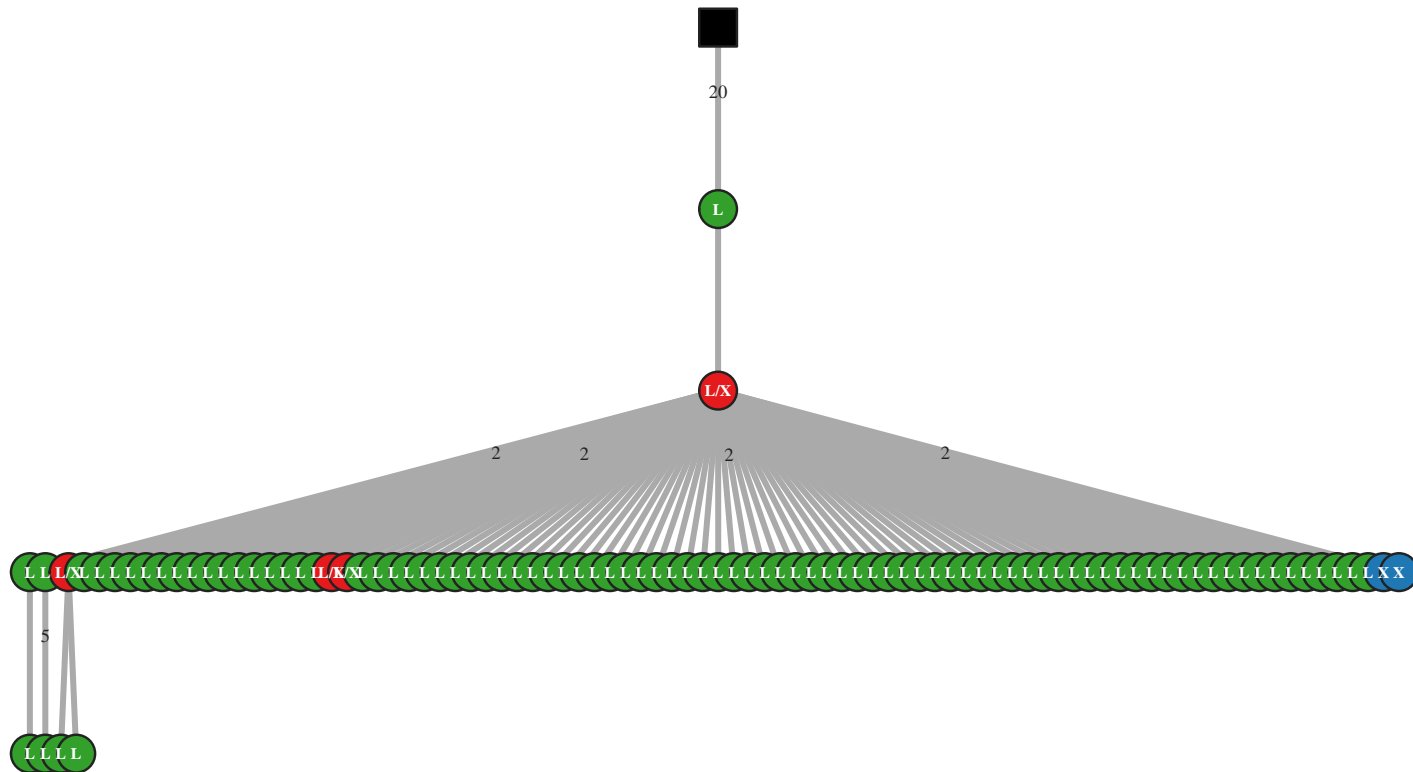
M3 IgG IGHV1-18/J6 63bp (6741)



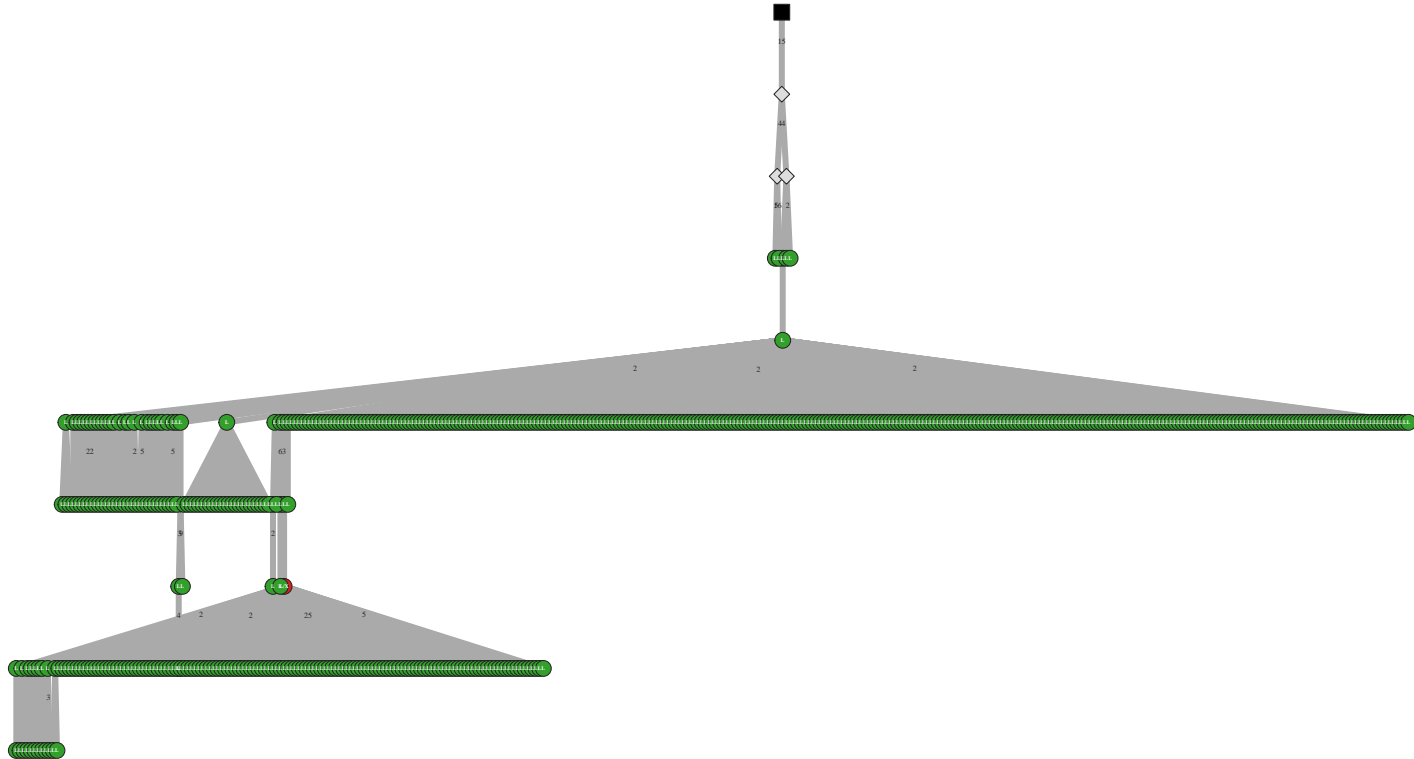
M3 IgG IGHV1-2/J1 48bp (10838)



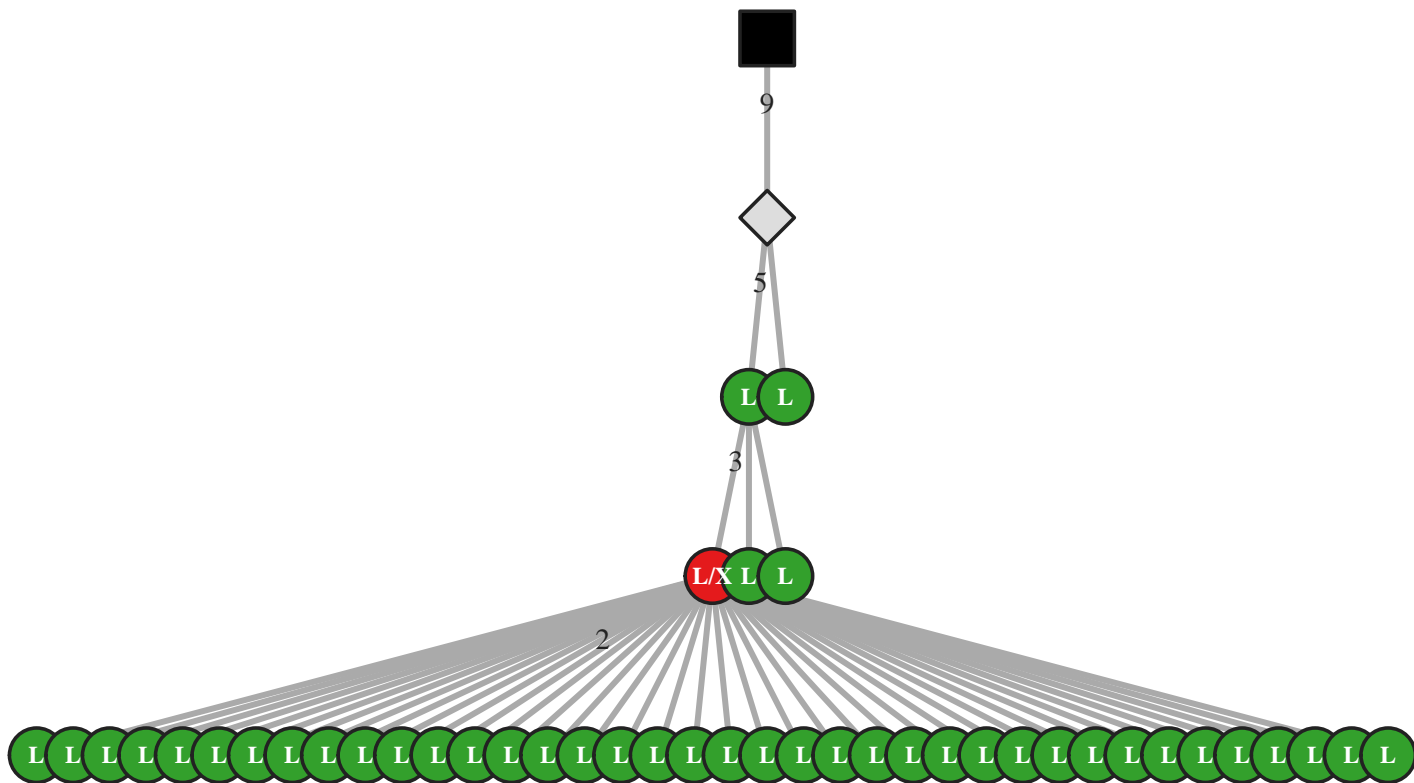
M3 IgG IGHV1-2/J4 33bp (10847)



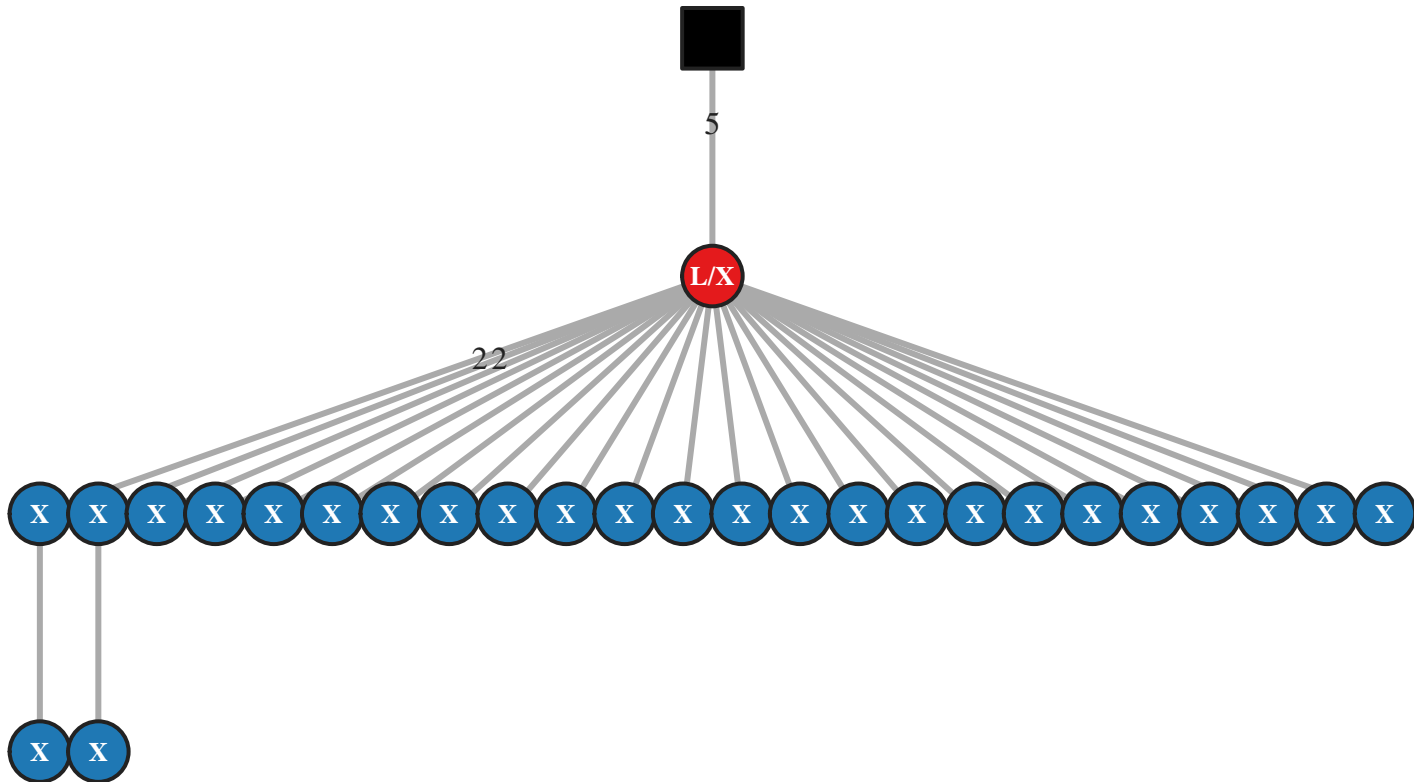
M3 IgG IGHV1-2/J4 36bp (10851)



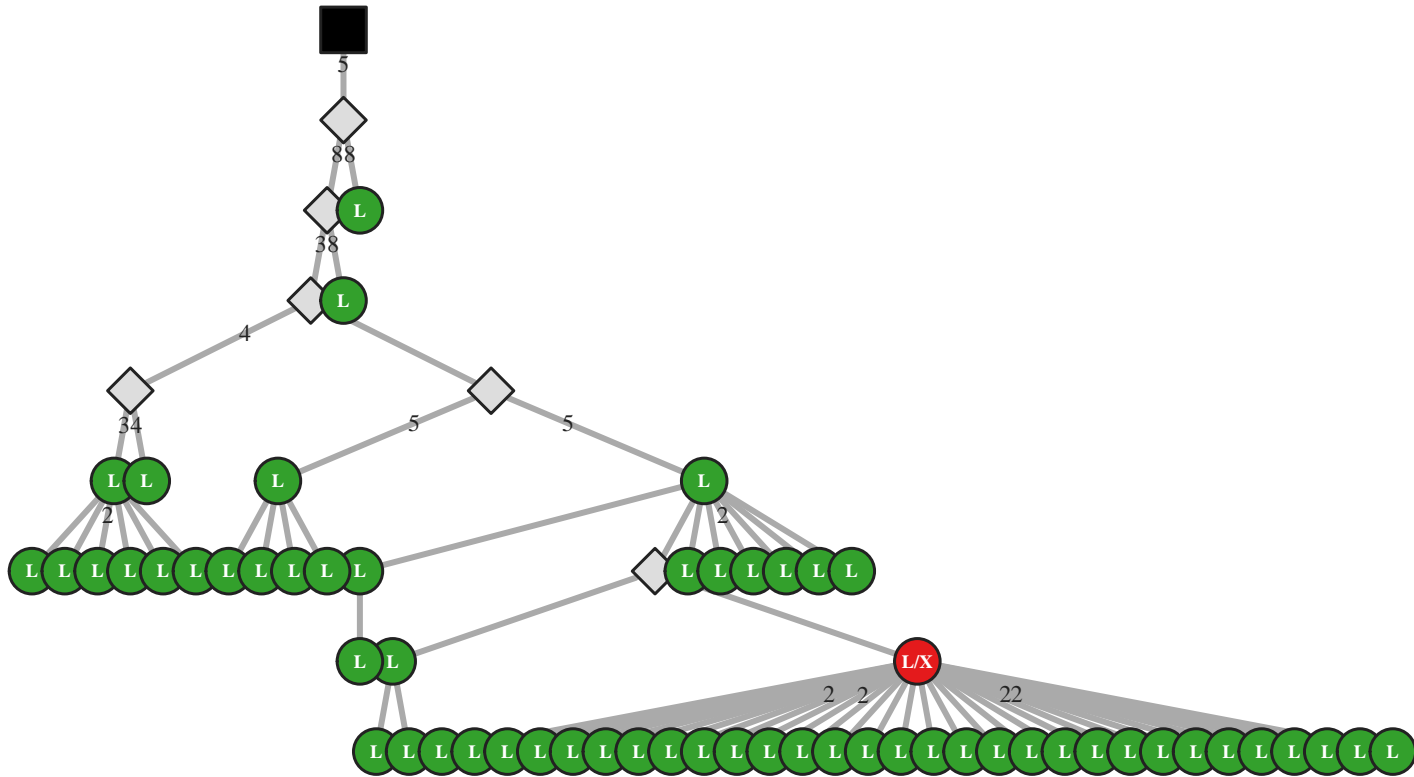
M3 IgA IGHV1-2/J4 45bp (1825)



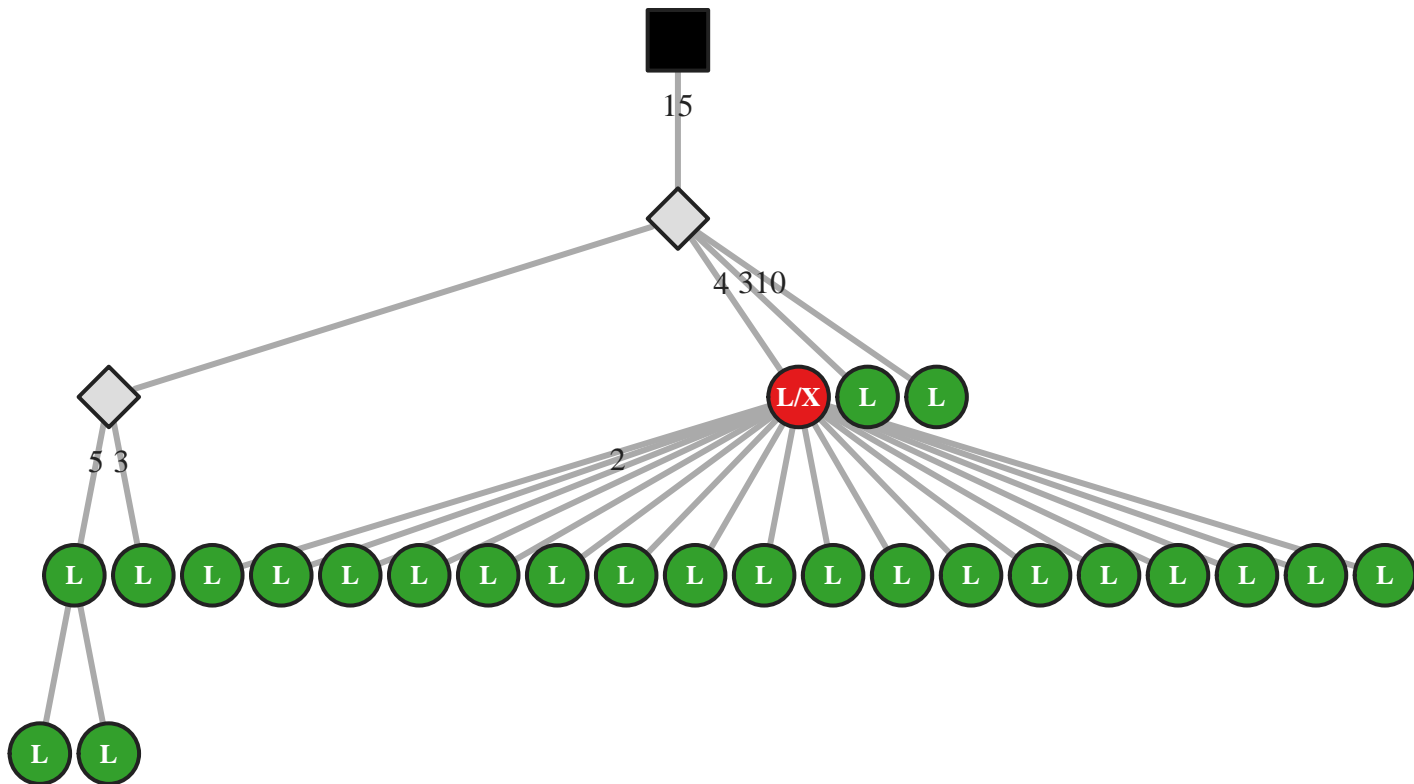
M3 IgG IGHV1-2/J4 45bp (6819)



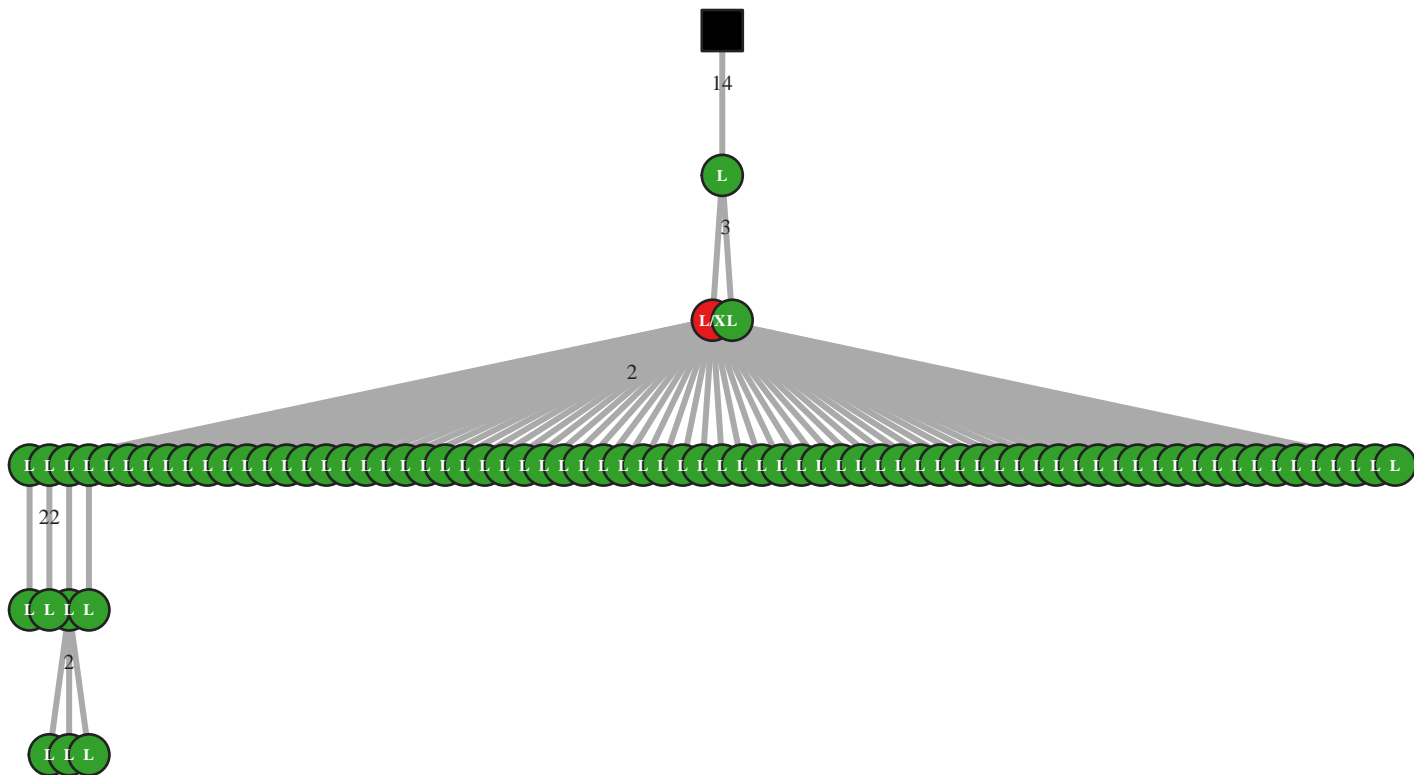
M3 IgM IGHV1-2/J4 48bp (4398)



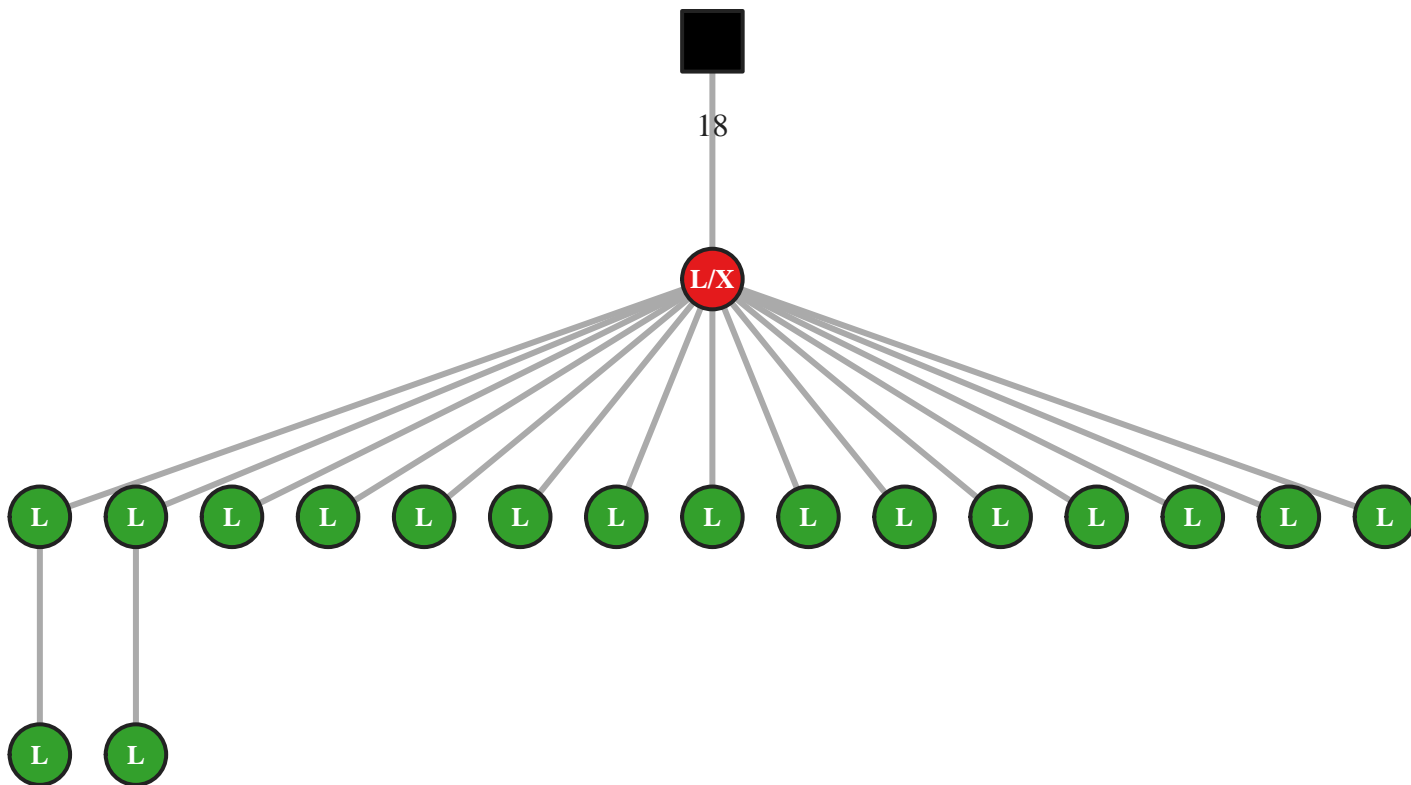
M3 IgA IGHV1-2/J4 51bp (9755)



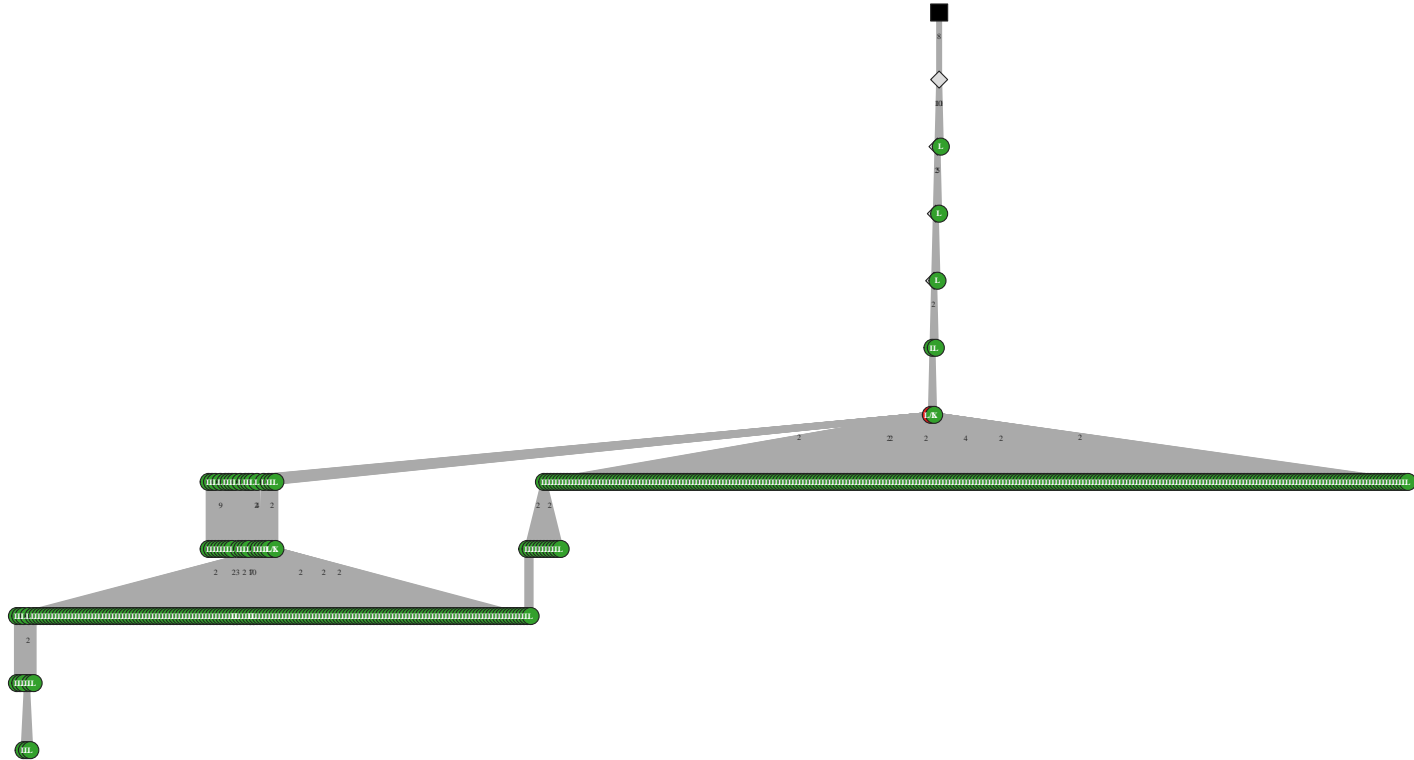
M3 IgA IGHV1-2/J4 54bp (5732)



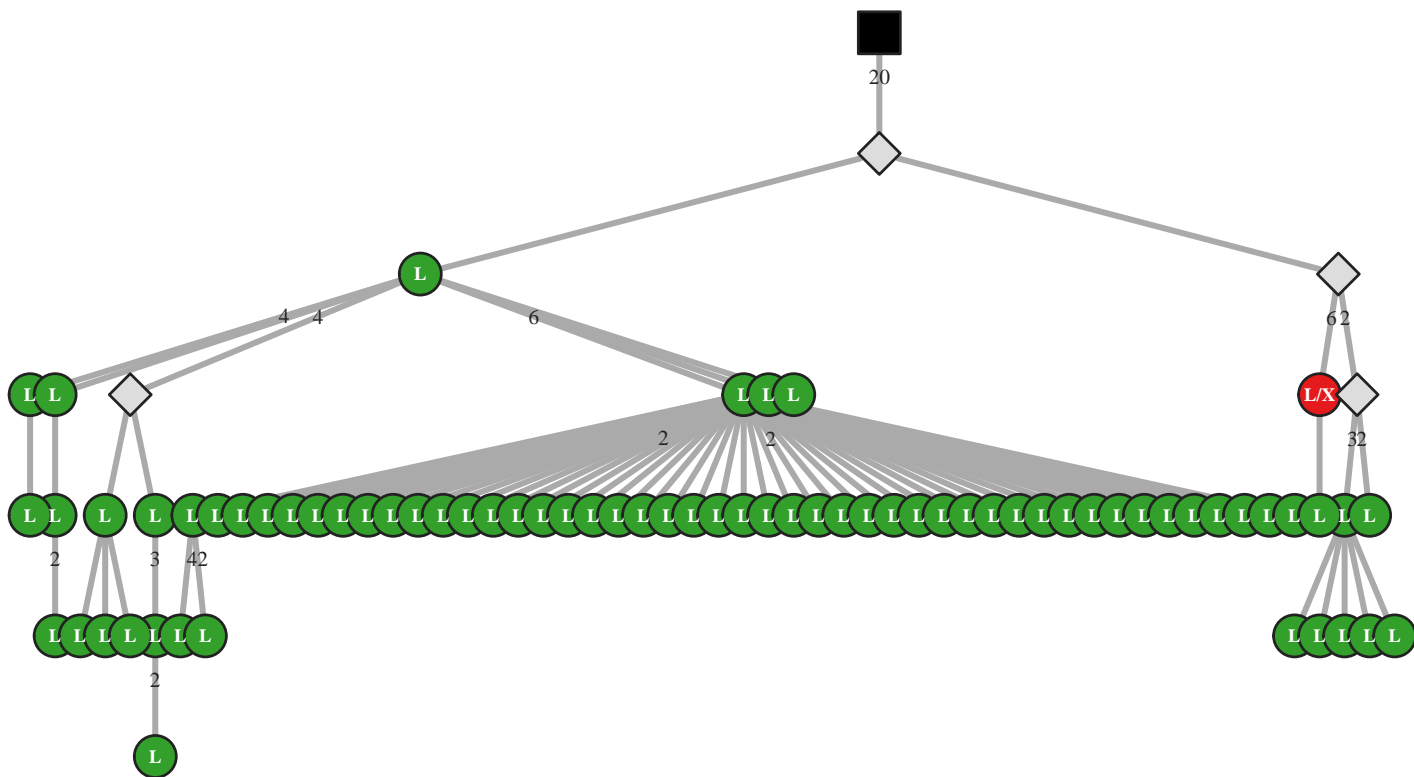
M3 IgM IGHV1-2/J4 57bp (12585)



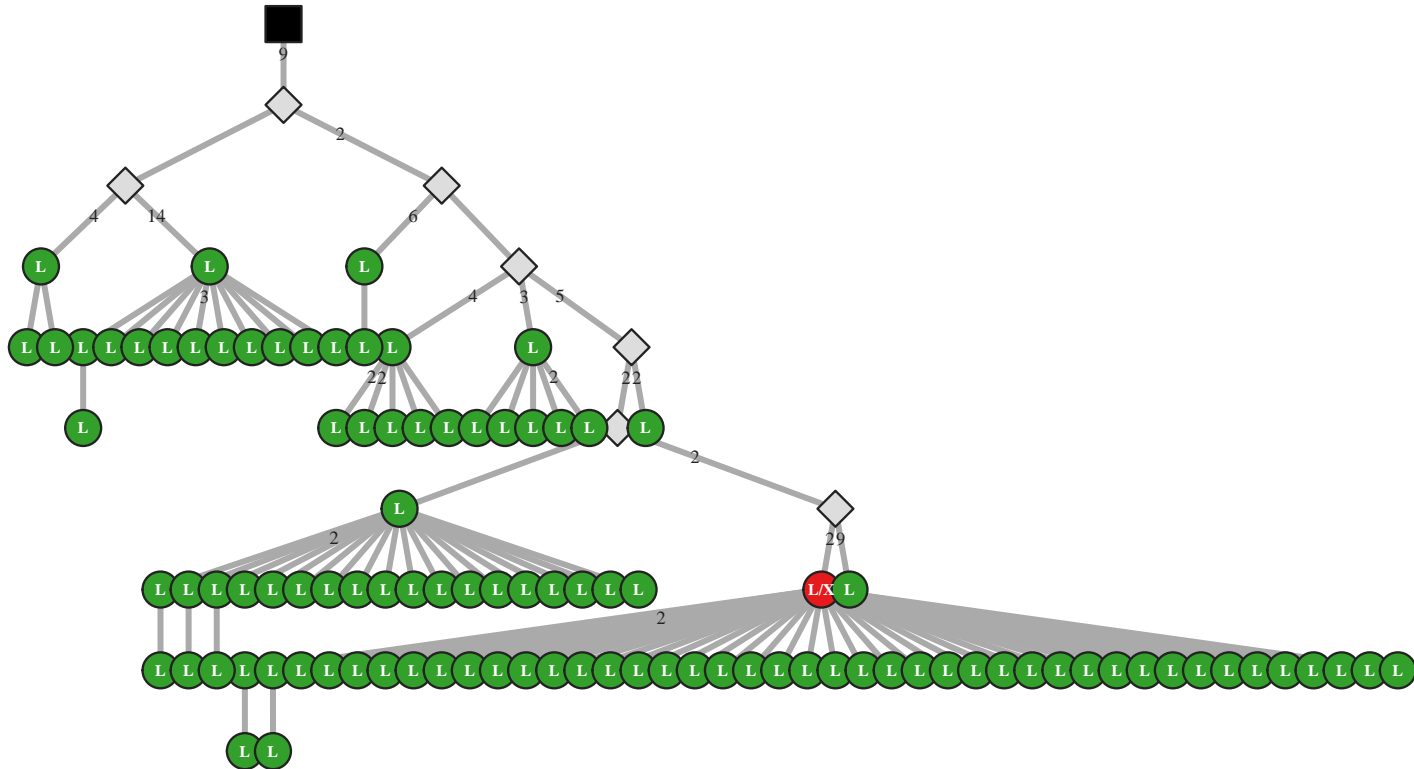
M3 IgG IGHV1-2/J5 57bp (2796)



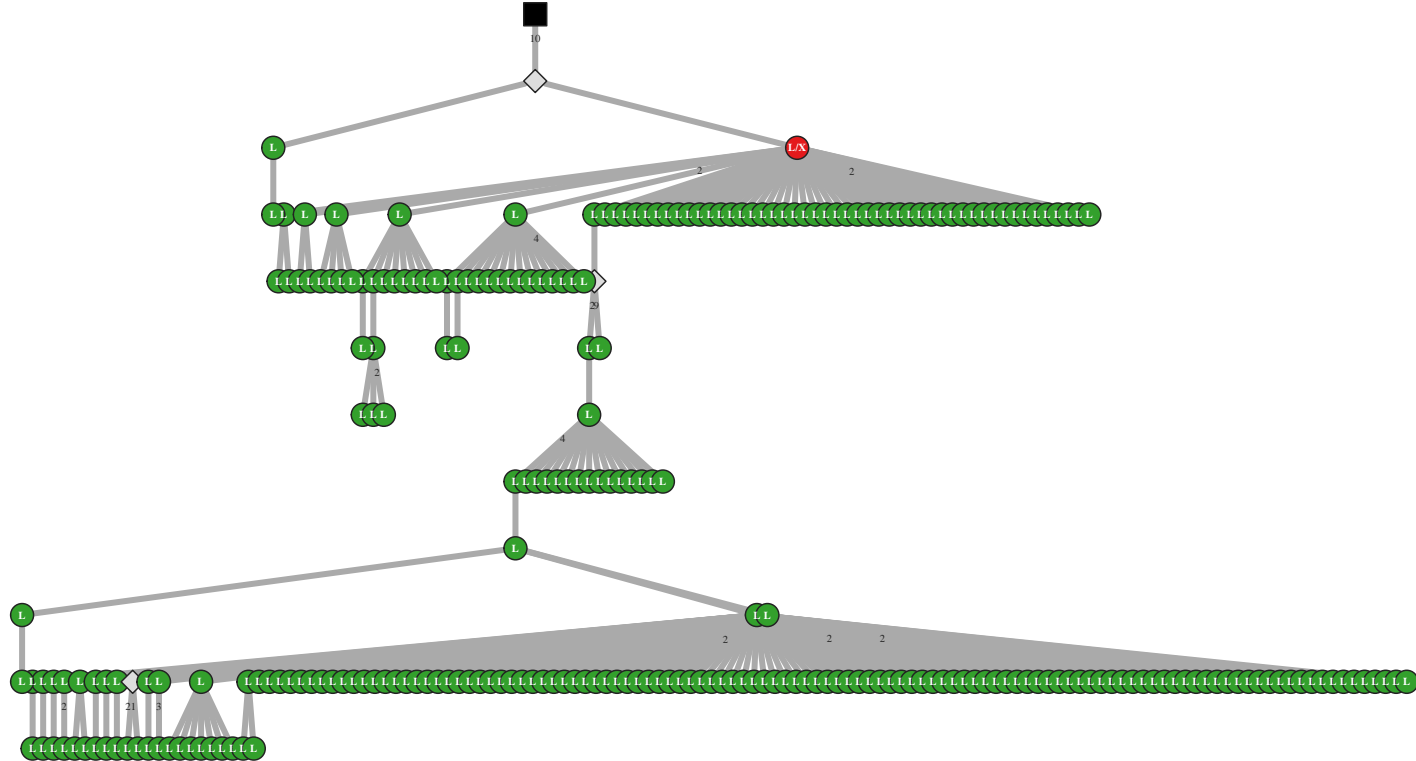
M3 IgA IGHV1-2/J5 72bp (9774)



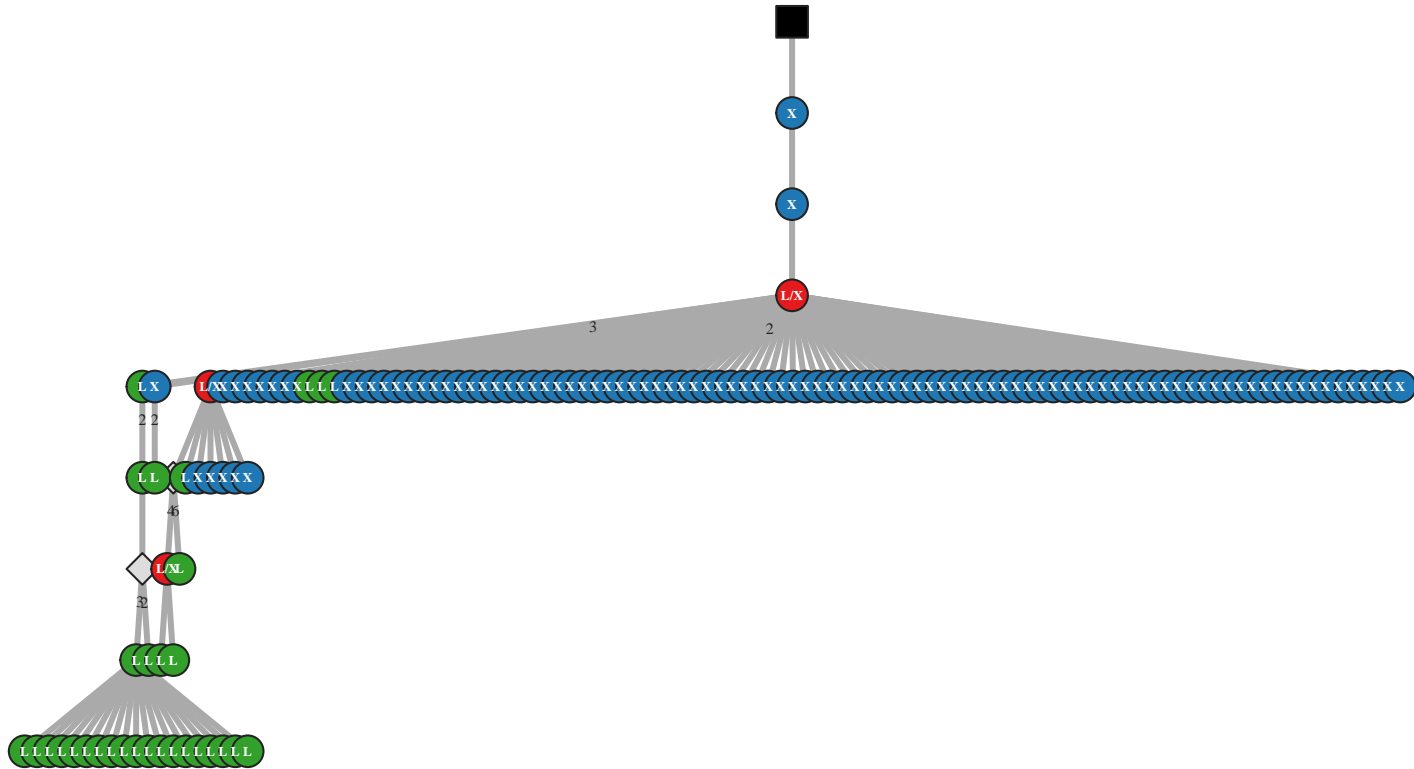
M3 IgA IGHV1-2/J5 72bp (9775)



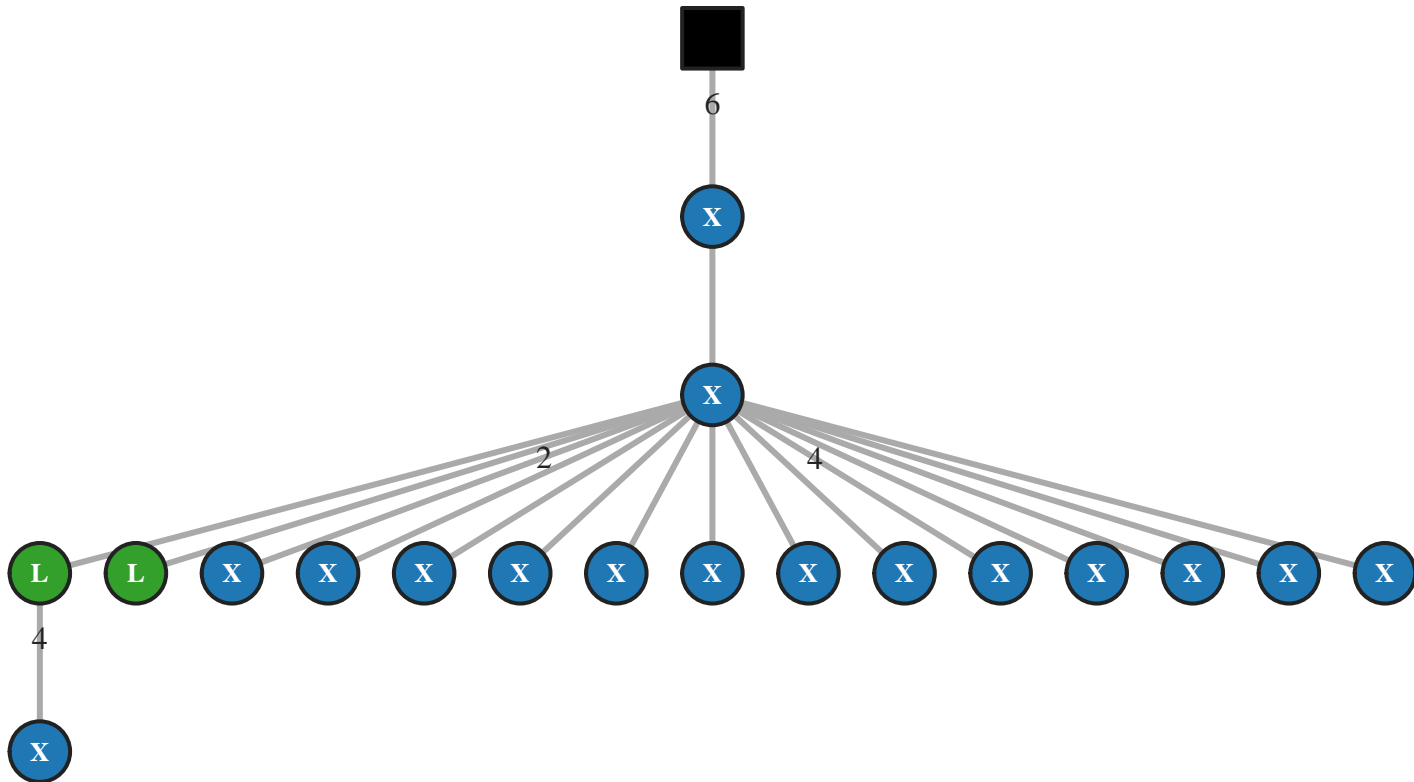
M3 IgG IGHV1-2/J5 78bp (2810)



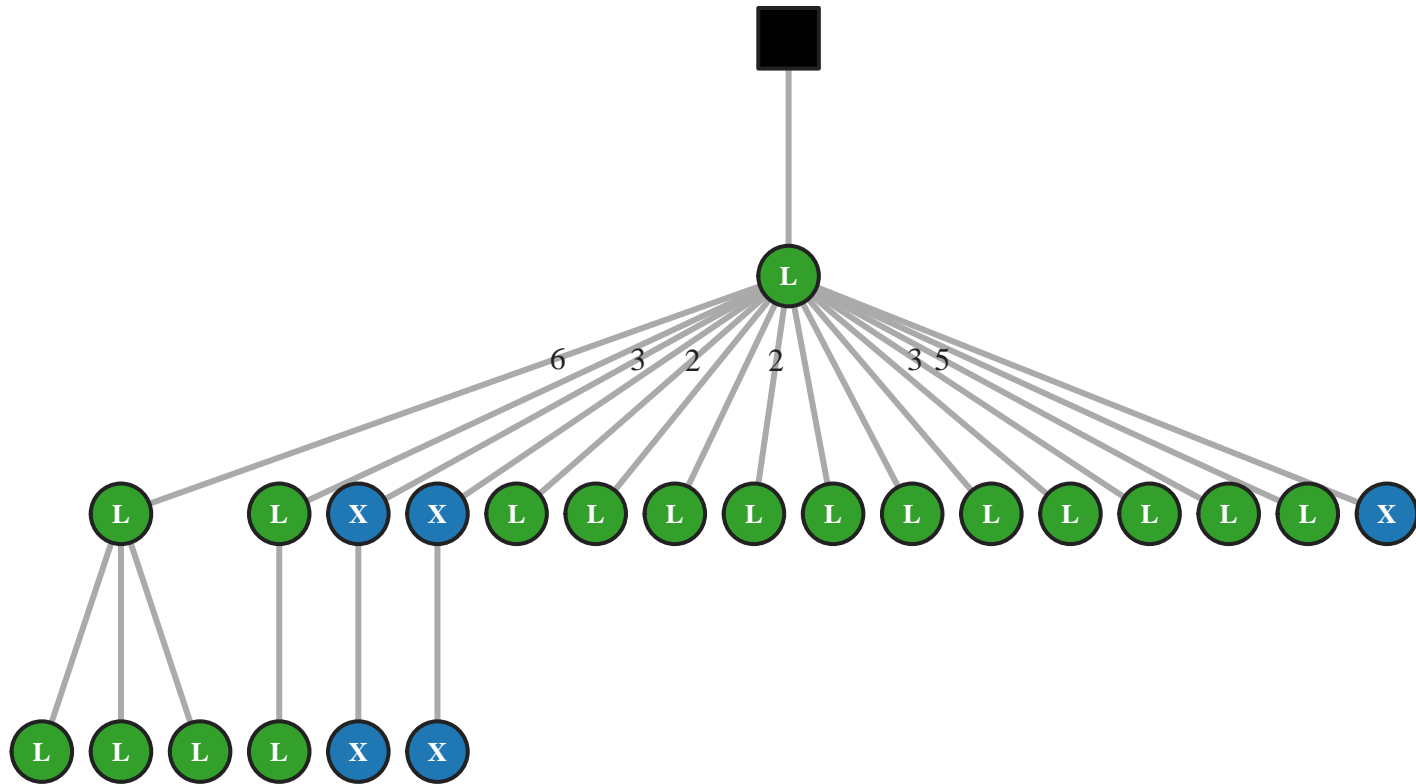
M3 IgG IGHV1-24/J4 57bp (10823)



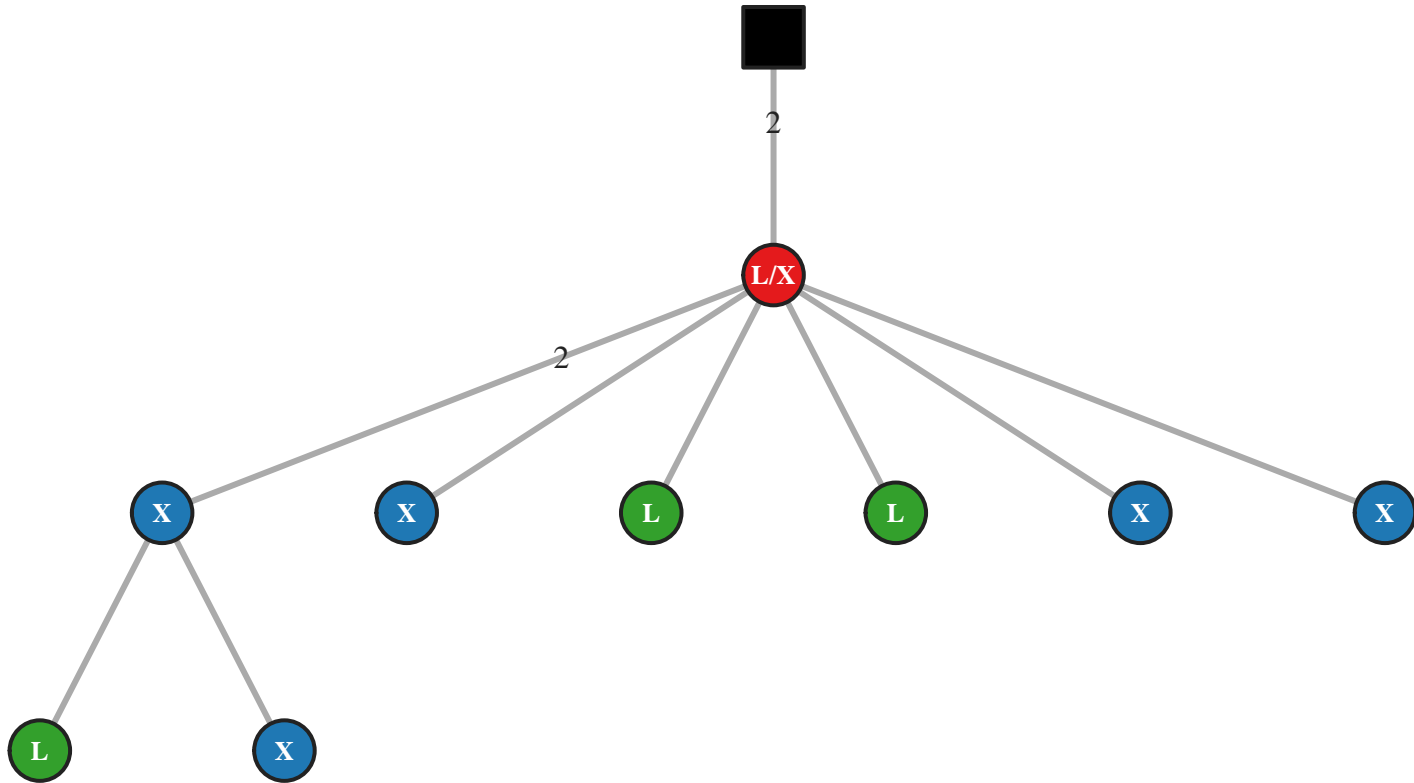
M3 IgG IGHV1-24/J4 63bp (6776)



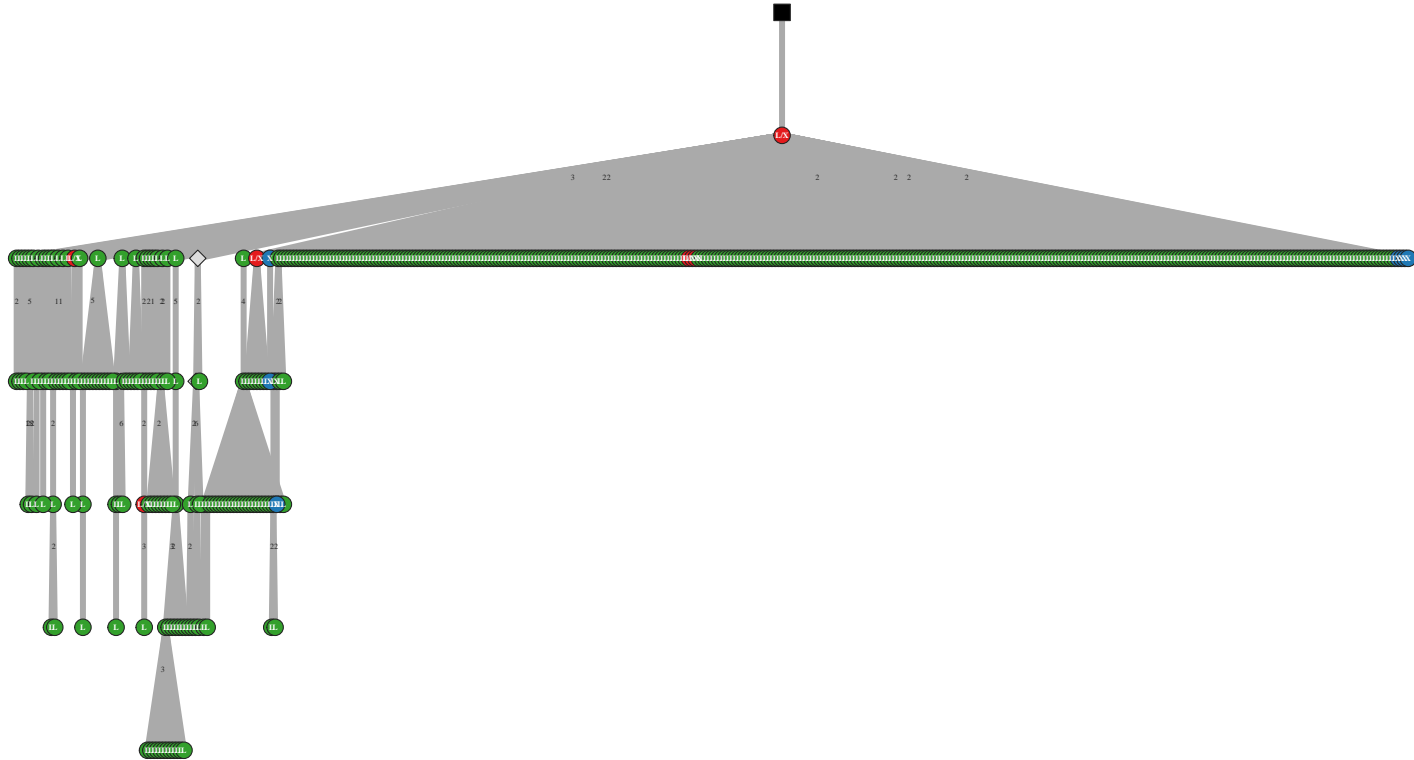
M3 IgG IGHV1-24/J6 54bp (6782)



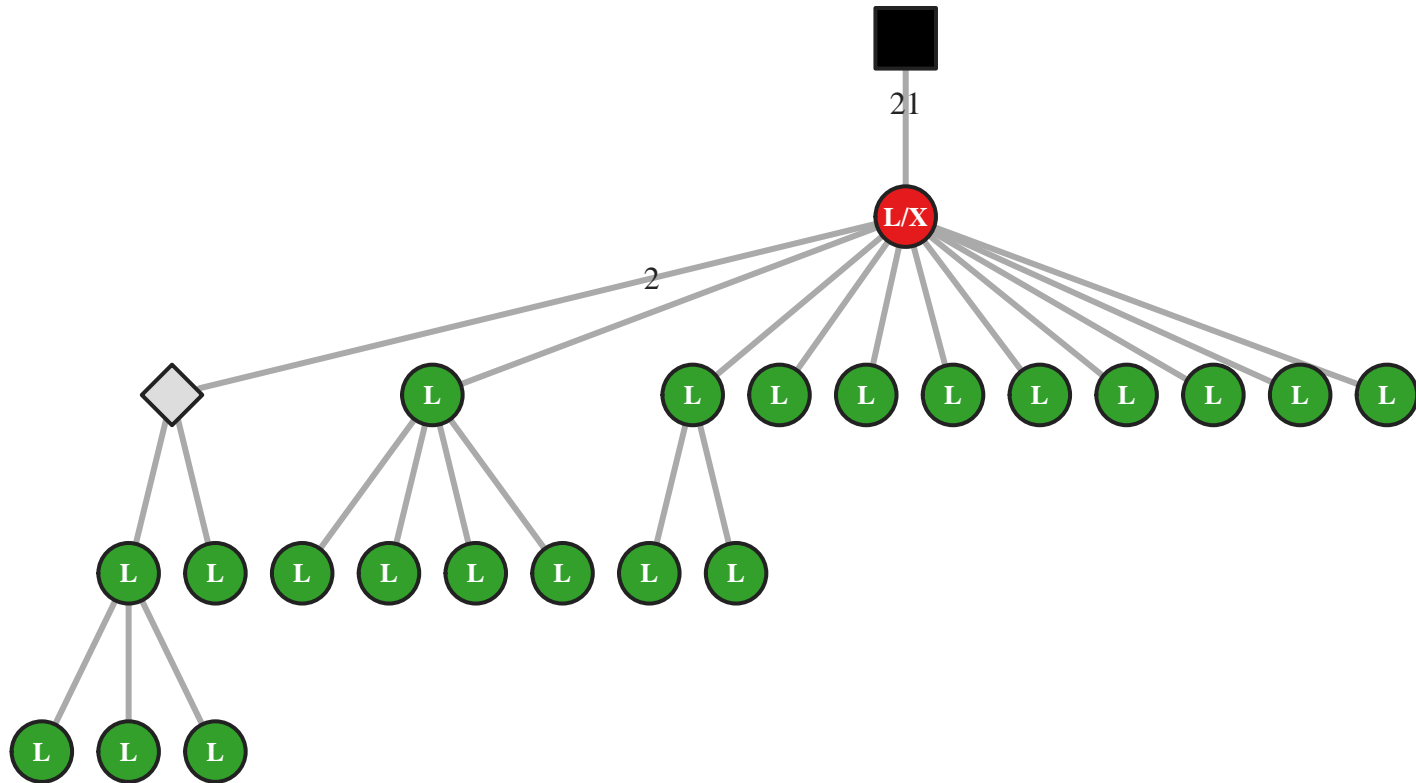
M3 IgG IGHV1-24/J6 69bp (6790)



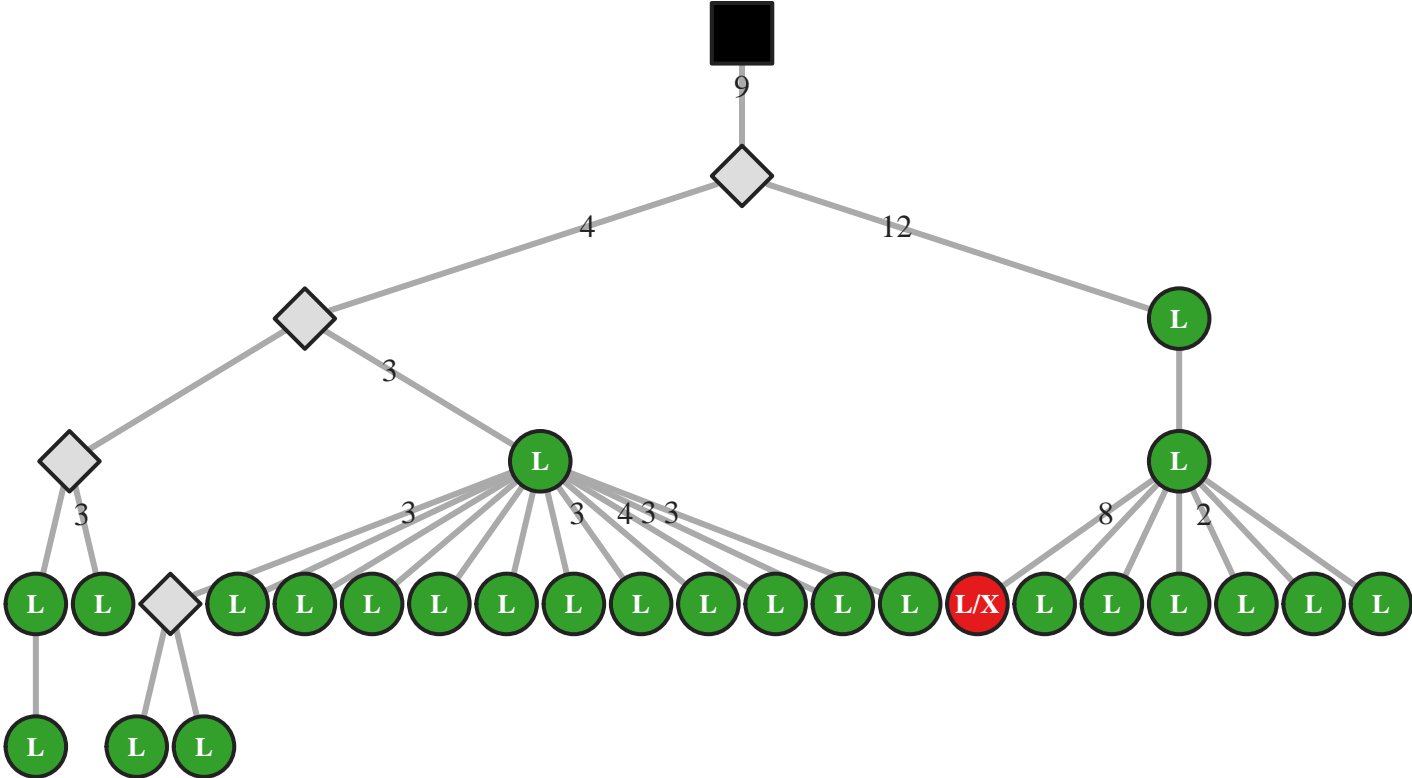
M3 IgG IGHV1-24/J6 72bp (2746)



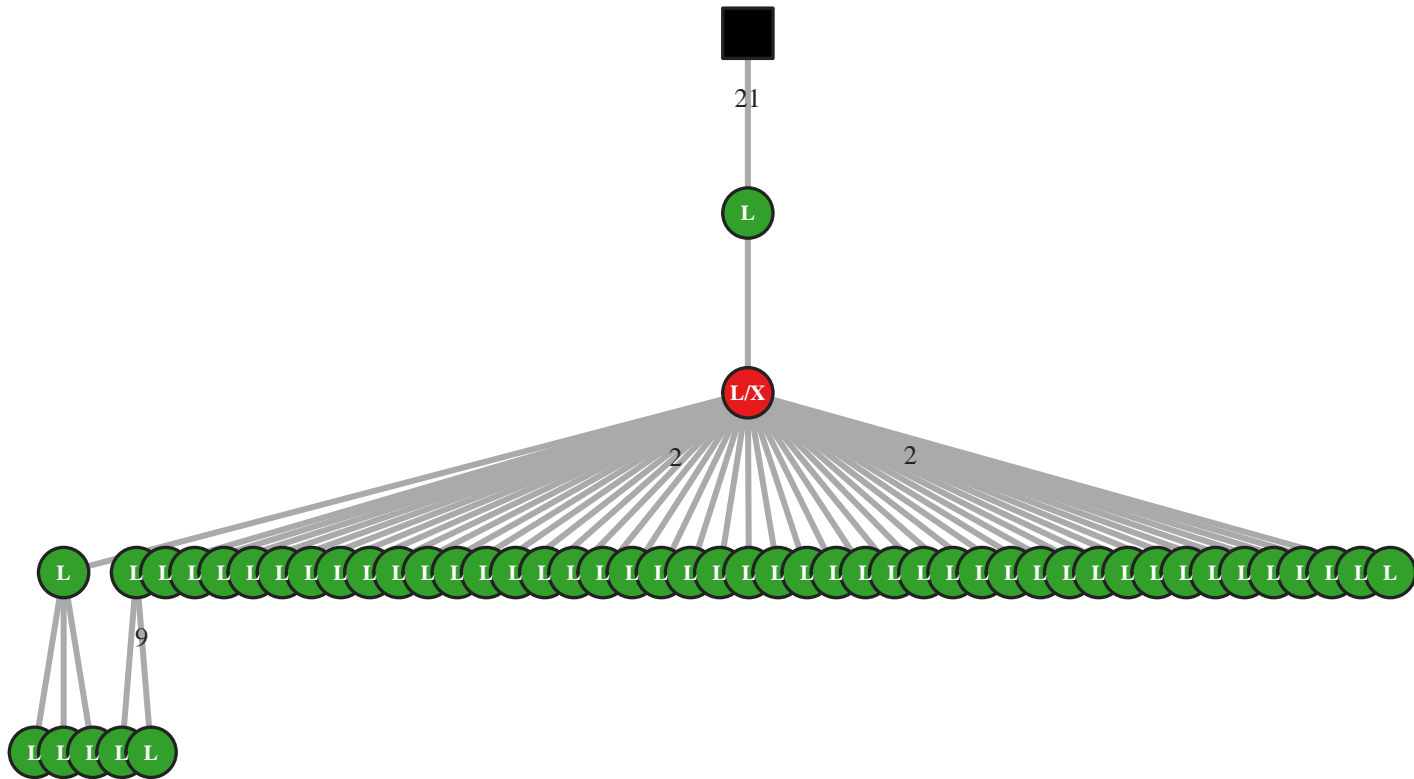
M3 IgA IGHV1-24/J6 75bp (1809)



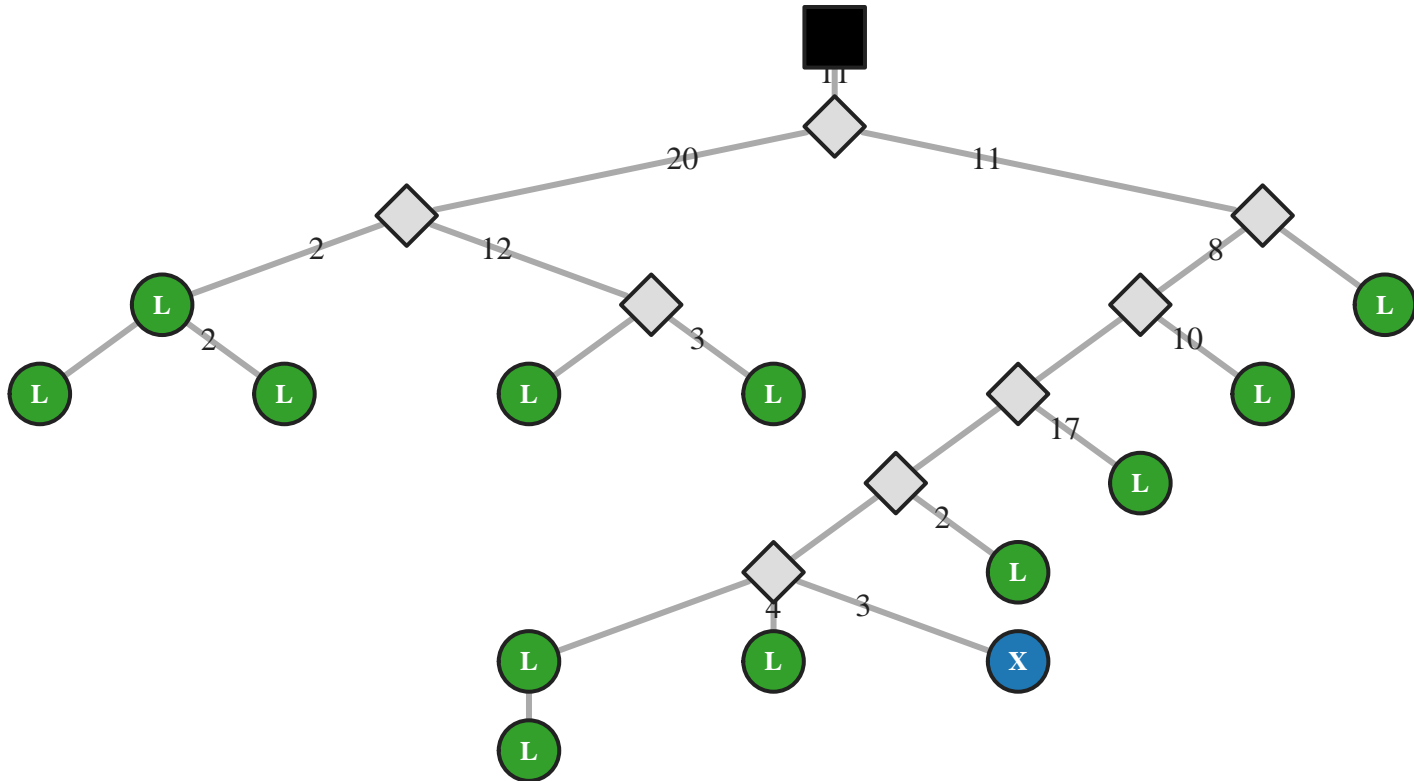
M3 IgG IGHV1-3/J3 57bp (10911)



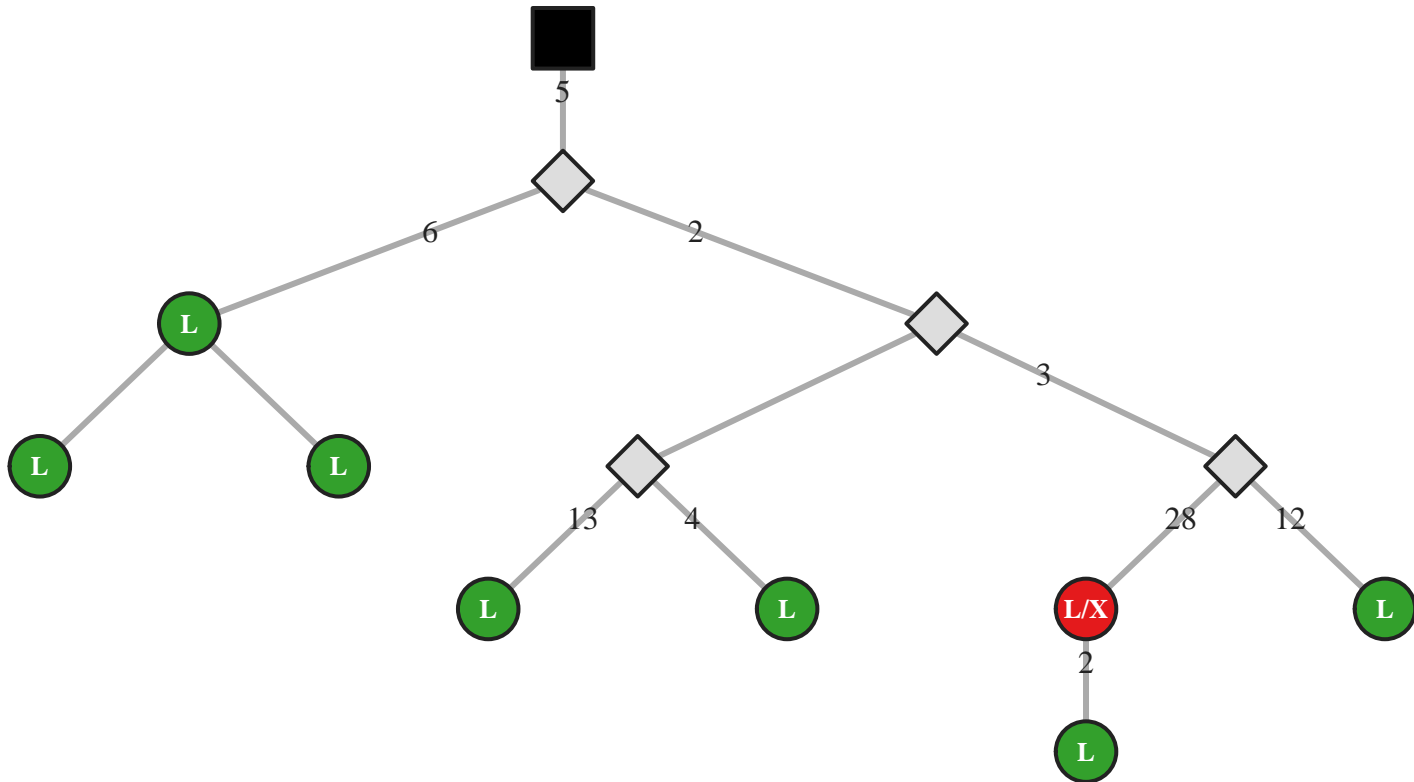
M3 IgG IGHV1-3/J3 57bp (10914)



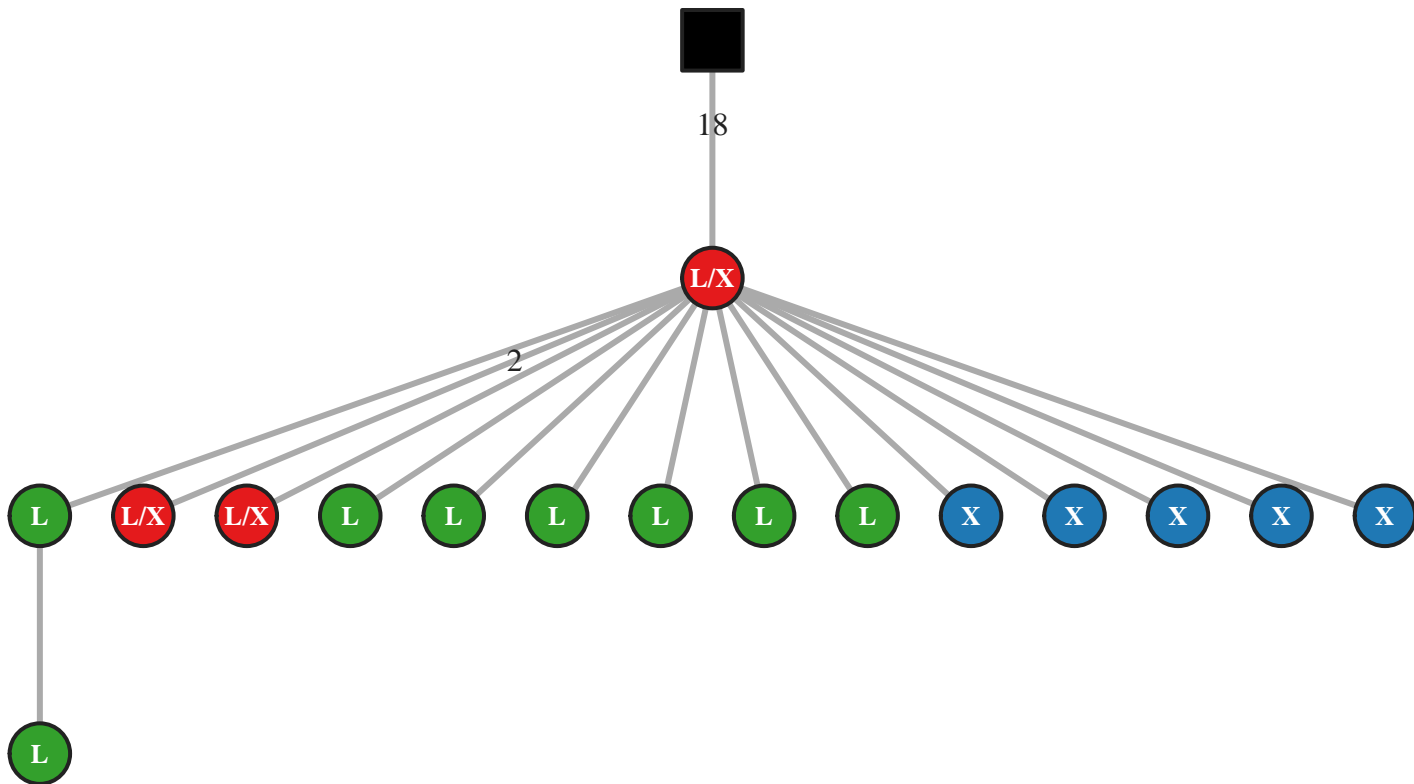
M3 IgG IGHV1-3/J3 60bp (6885)



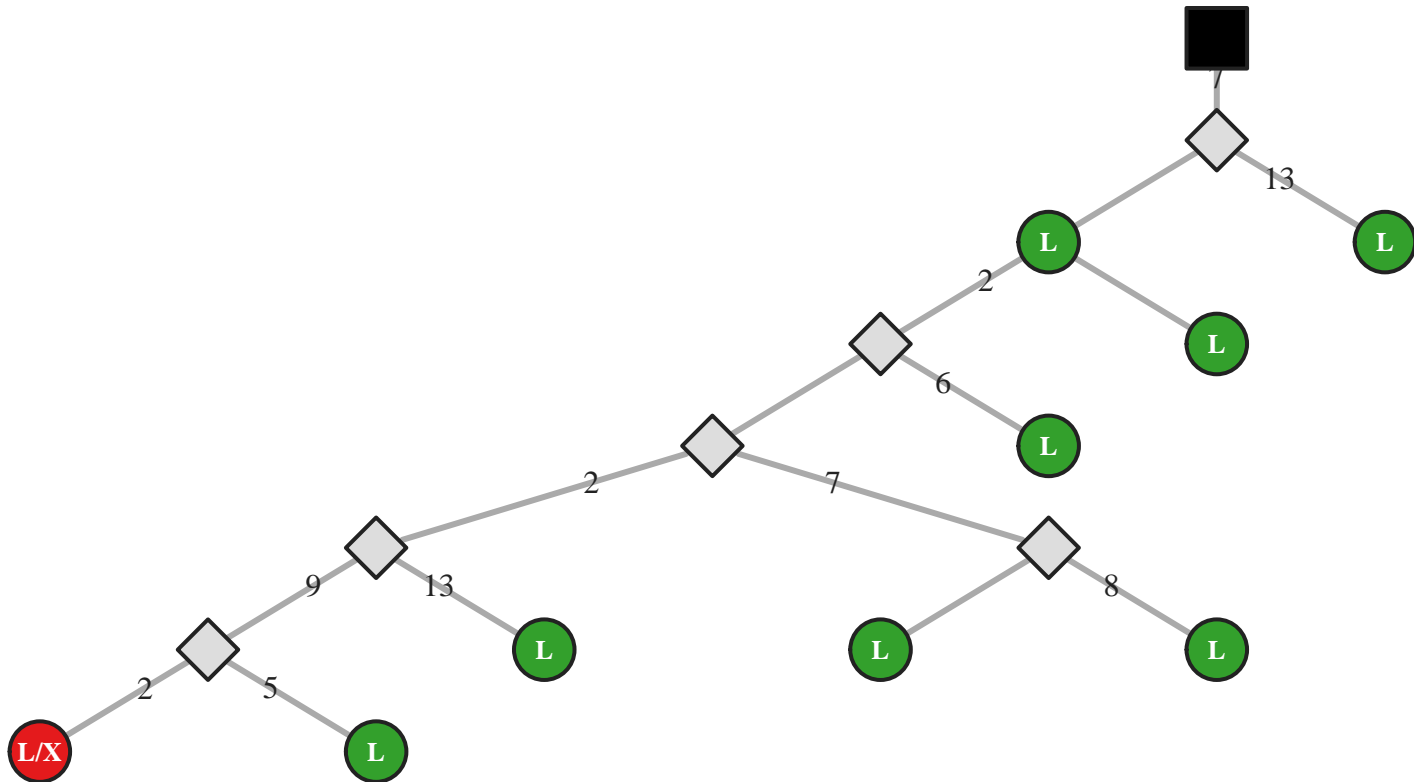
M3 IgA IGHV1-3/J4 36bp (9802)



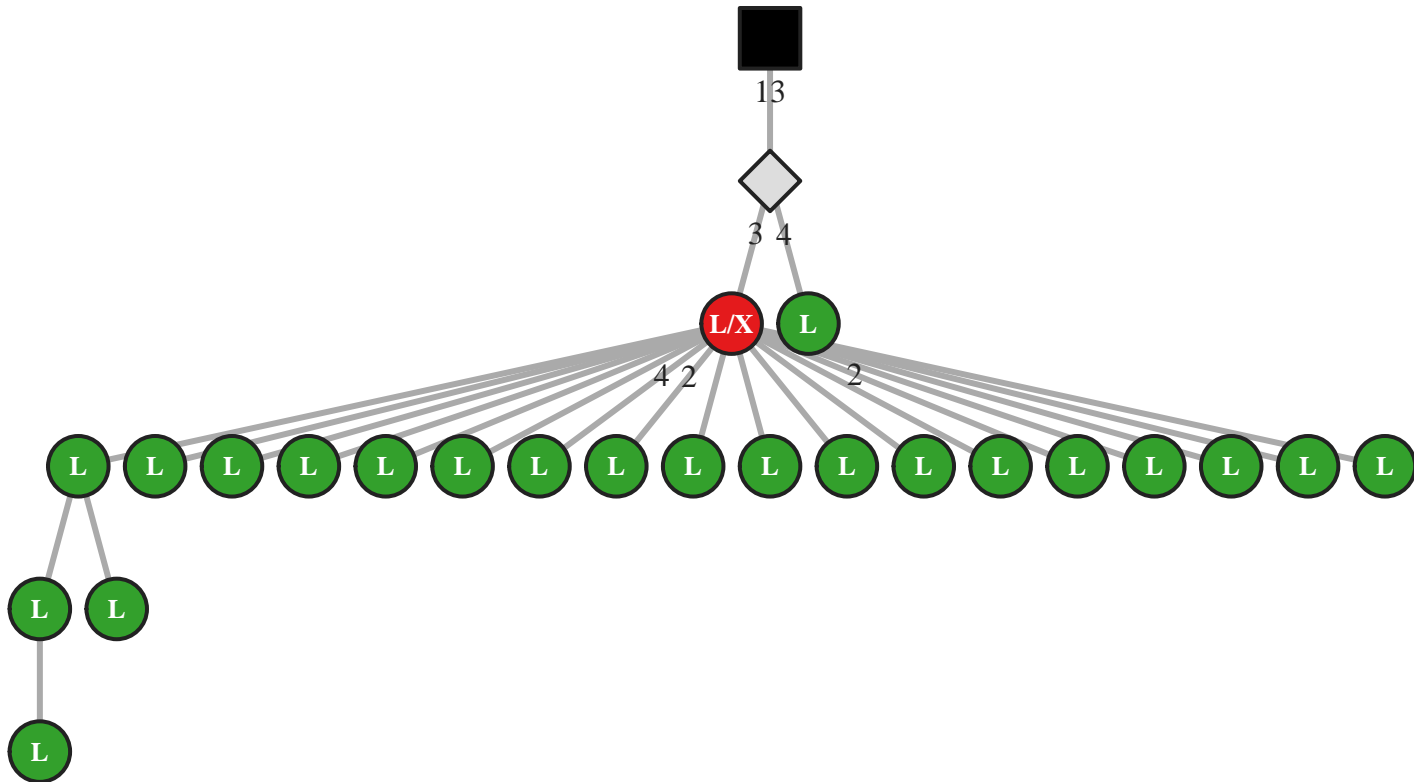
M3 IgA IGHV1-3/J4 57bp (9812)



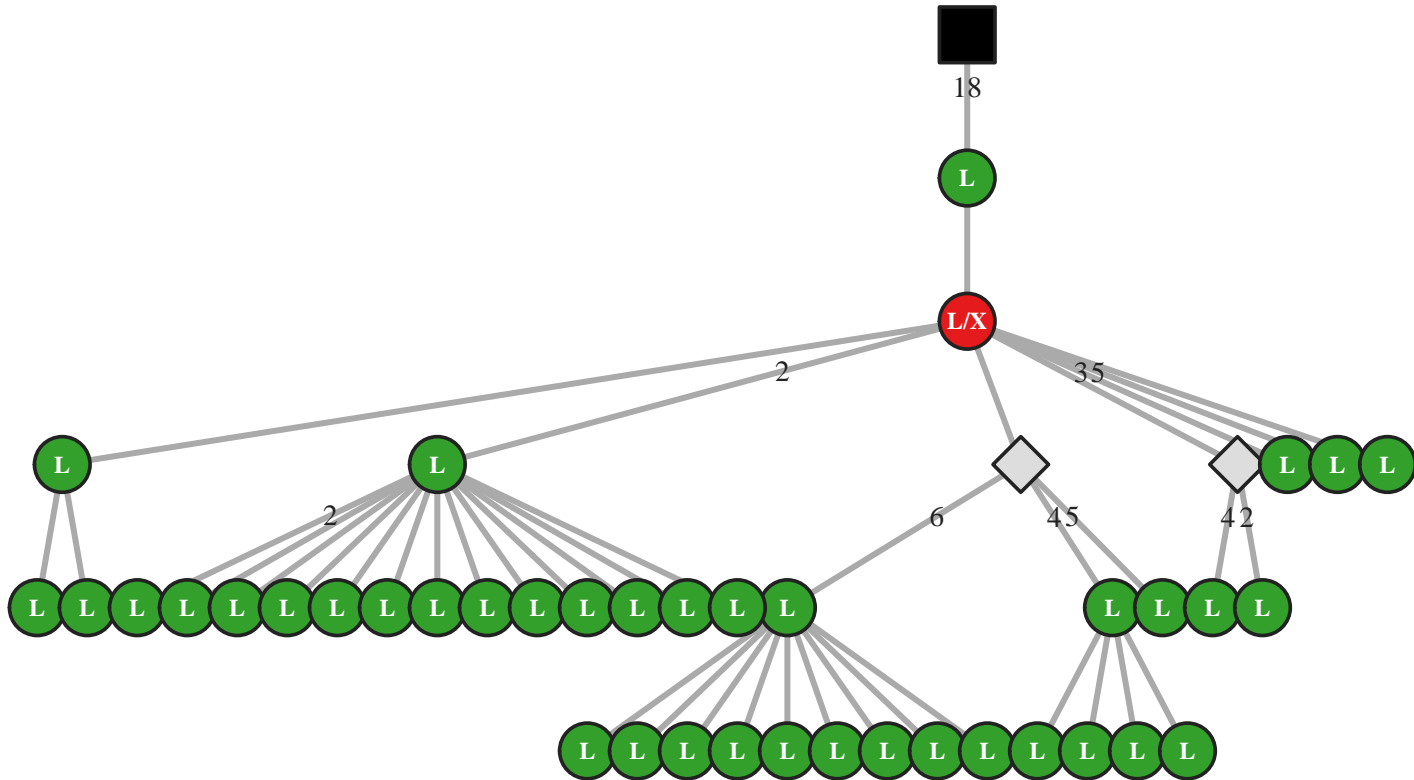
M3 IgG IGHV1-3/J5 54bp (10936)



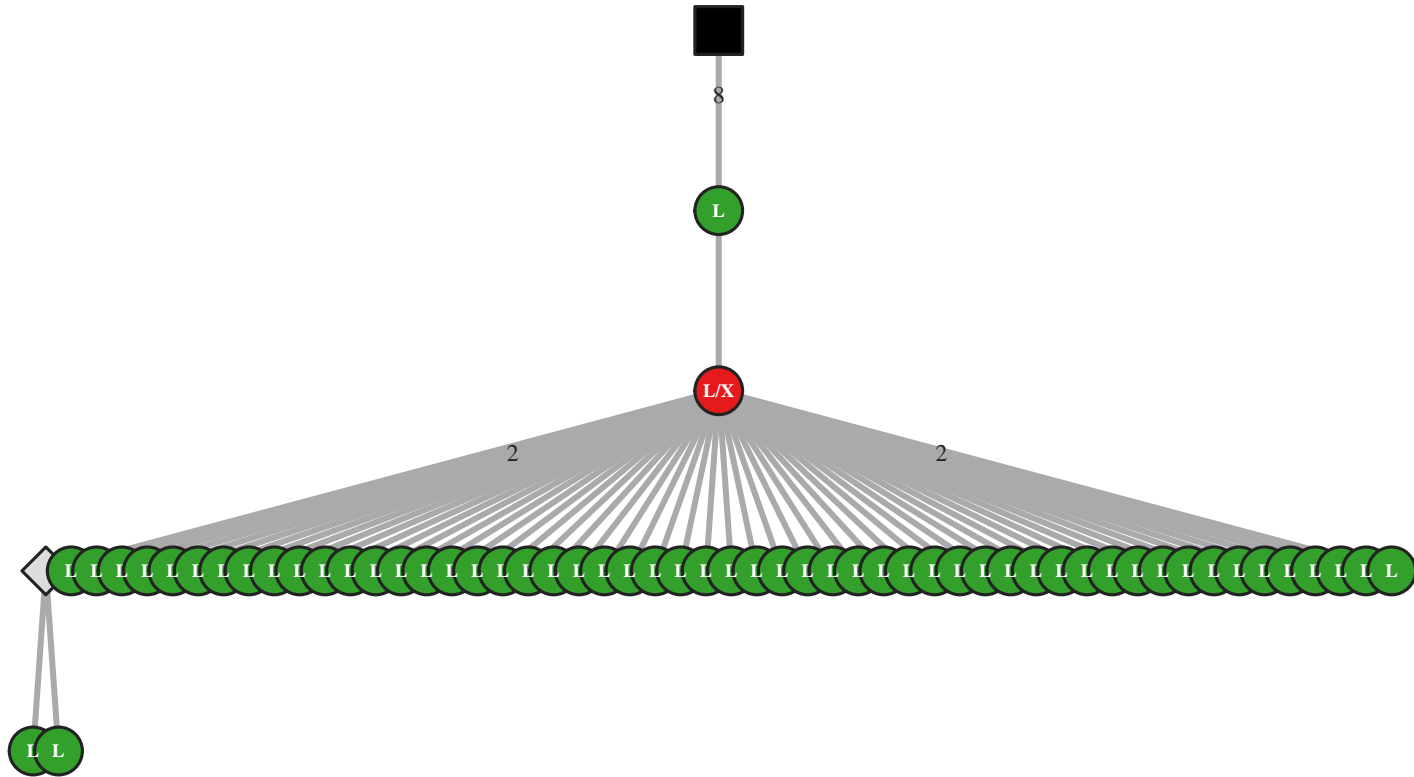
M3 IgG IGHV1-3/J5 72bp (2837)



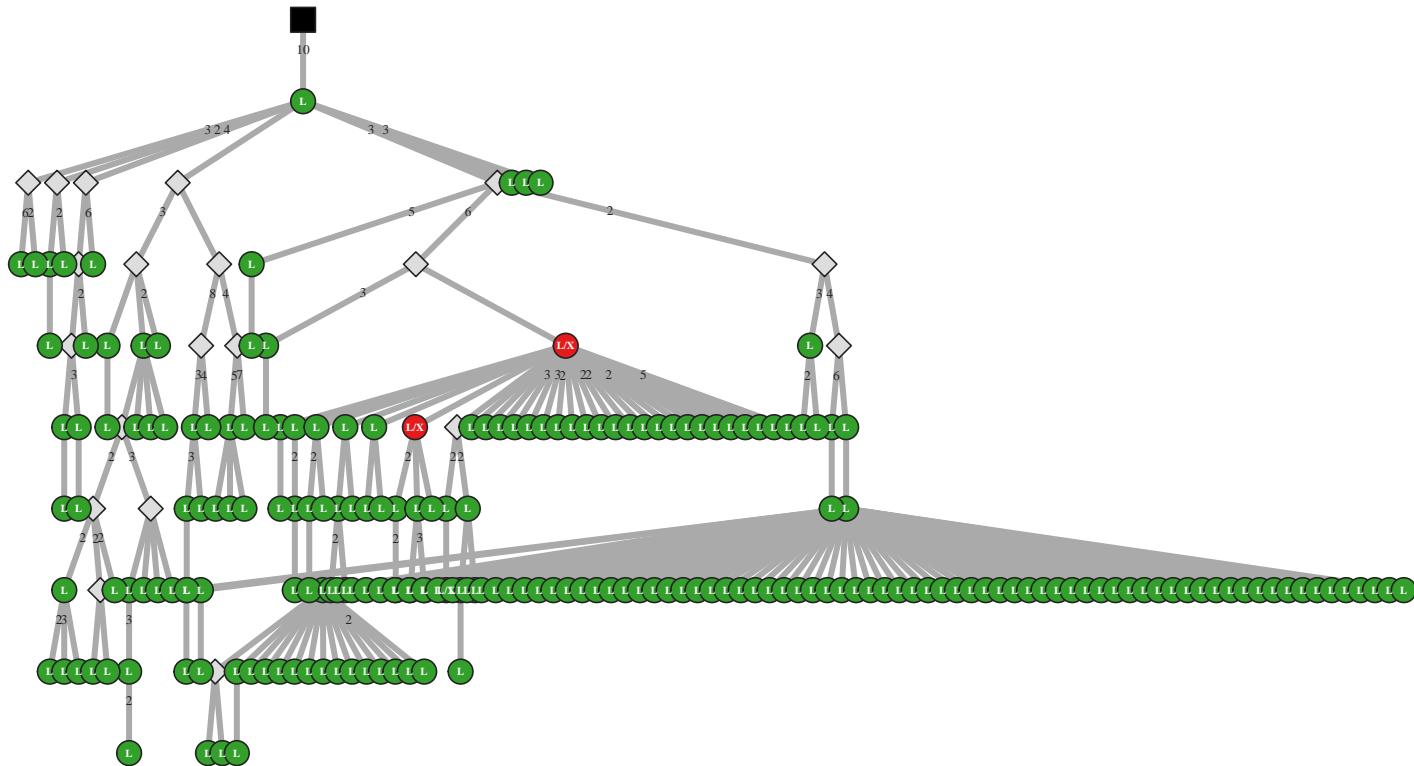
M3 IgM IGHV1-46/J4 45bp (12789)



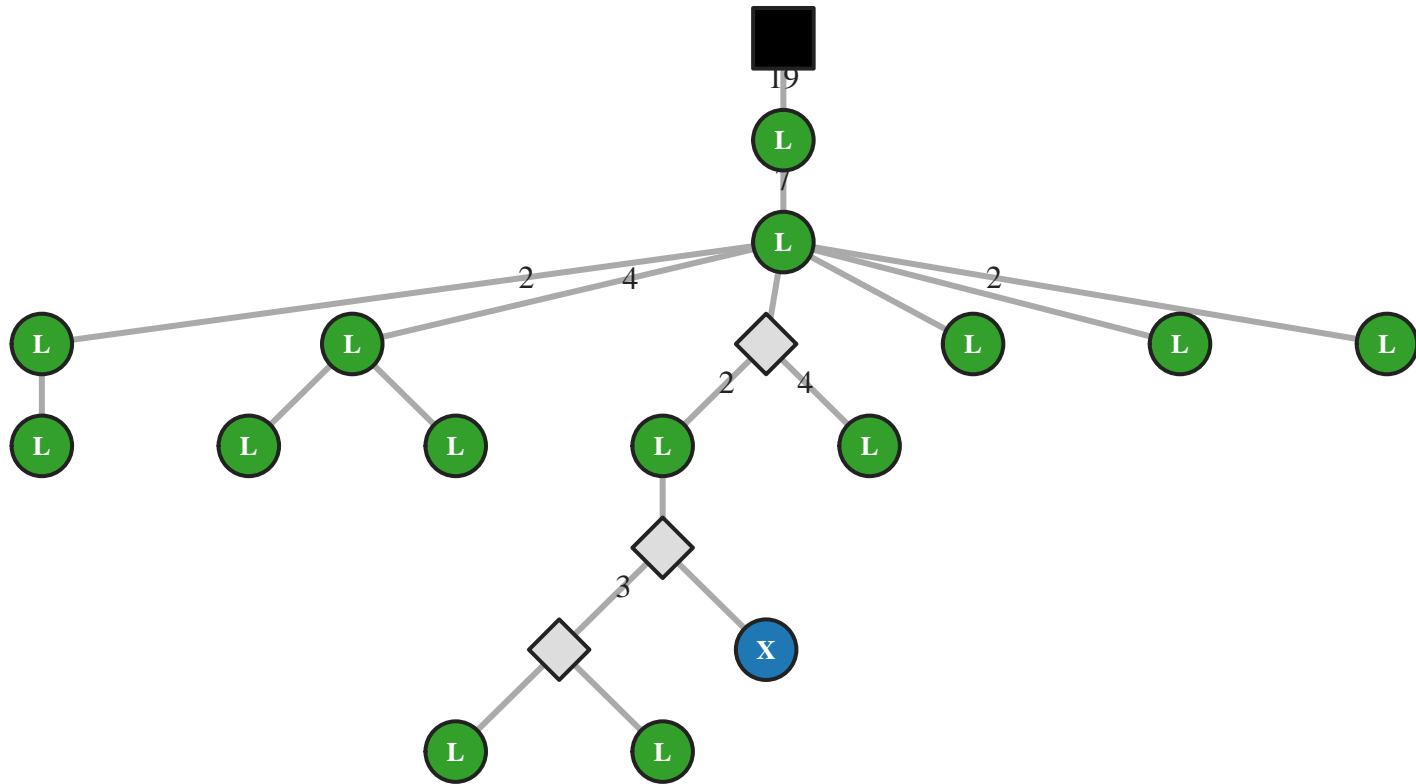
M3 IgA IGHV1-46/J4 48bp (1857)



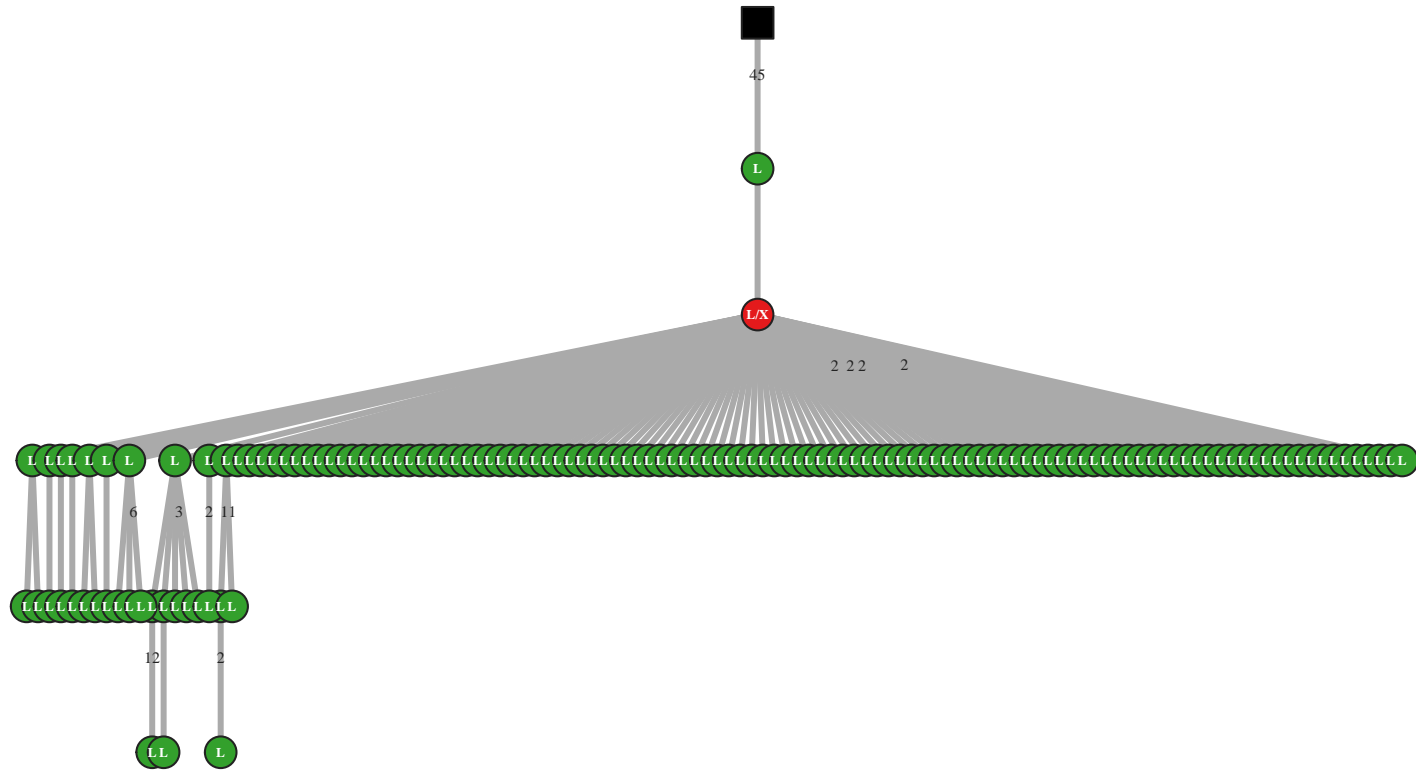
M3 IgA IGHV1-46/J6 63bp (5825)



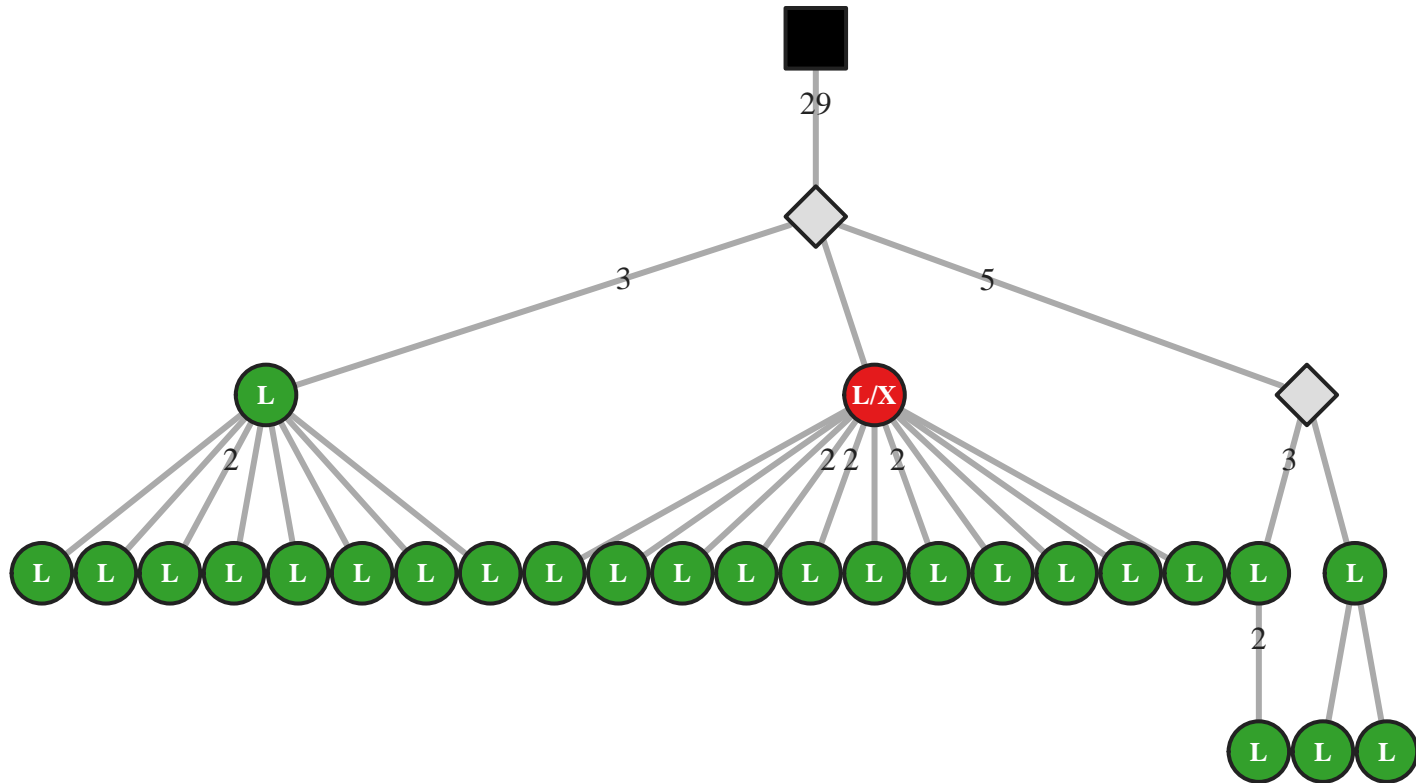
M3 IgA IGHV1-46/J6 72bp (1870)



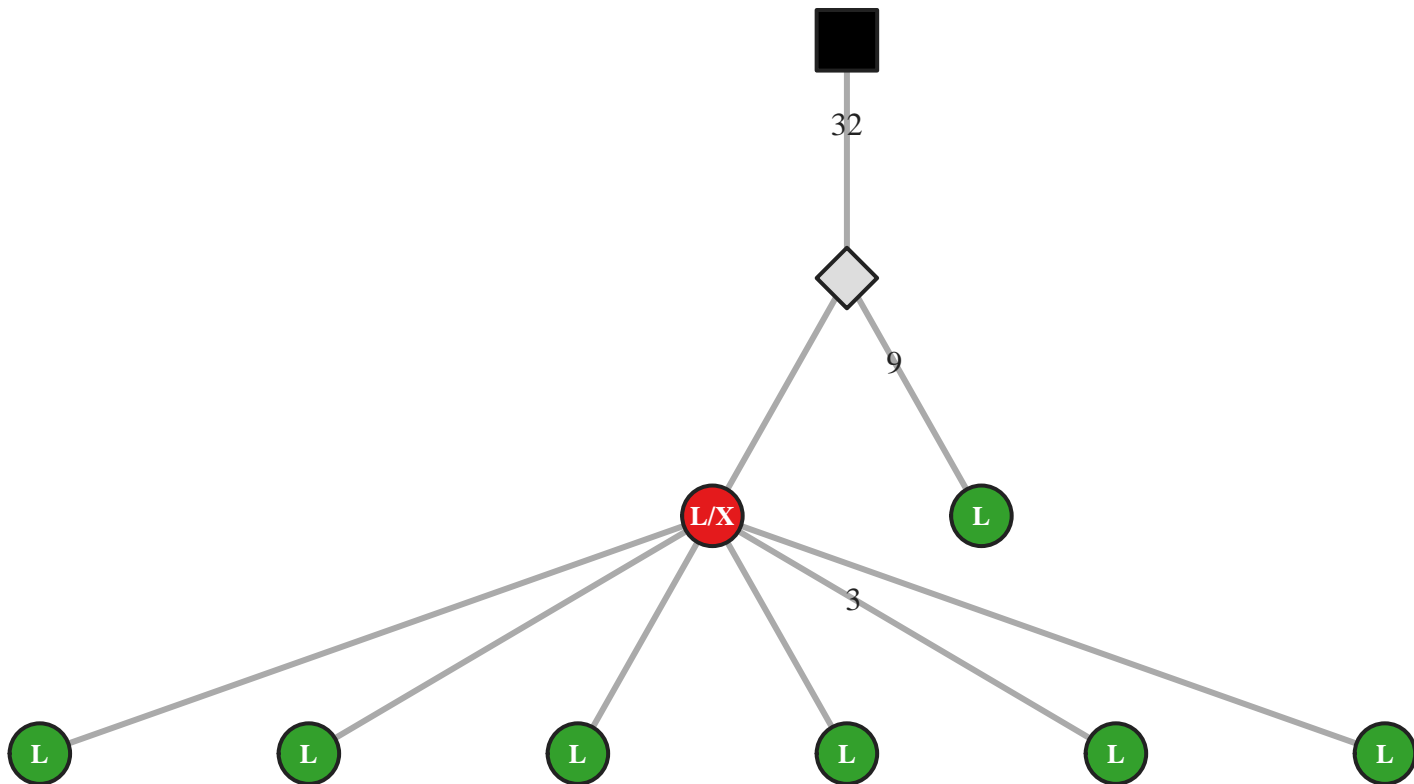
M3 IgG IGHV1-46/J6 72bp (2749)



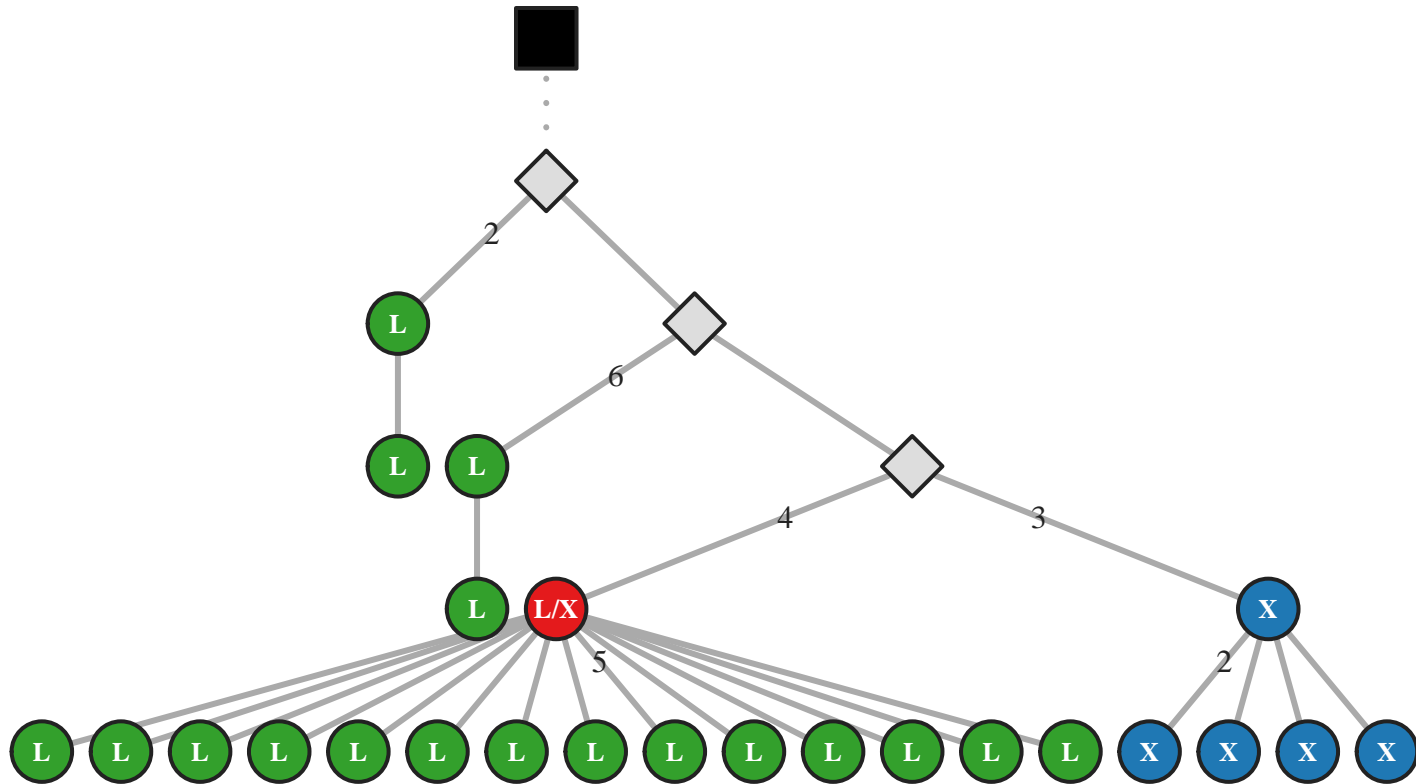
M3 IgG IGHV1-46/J6 90bp (2879)



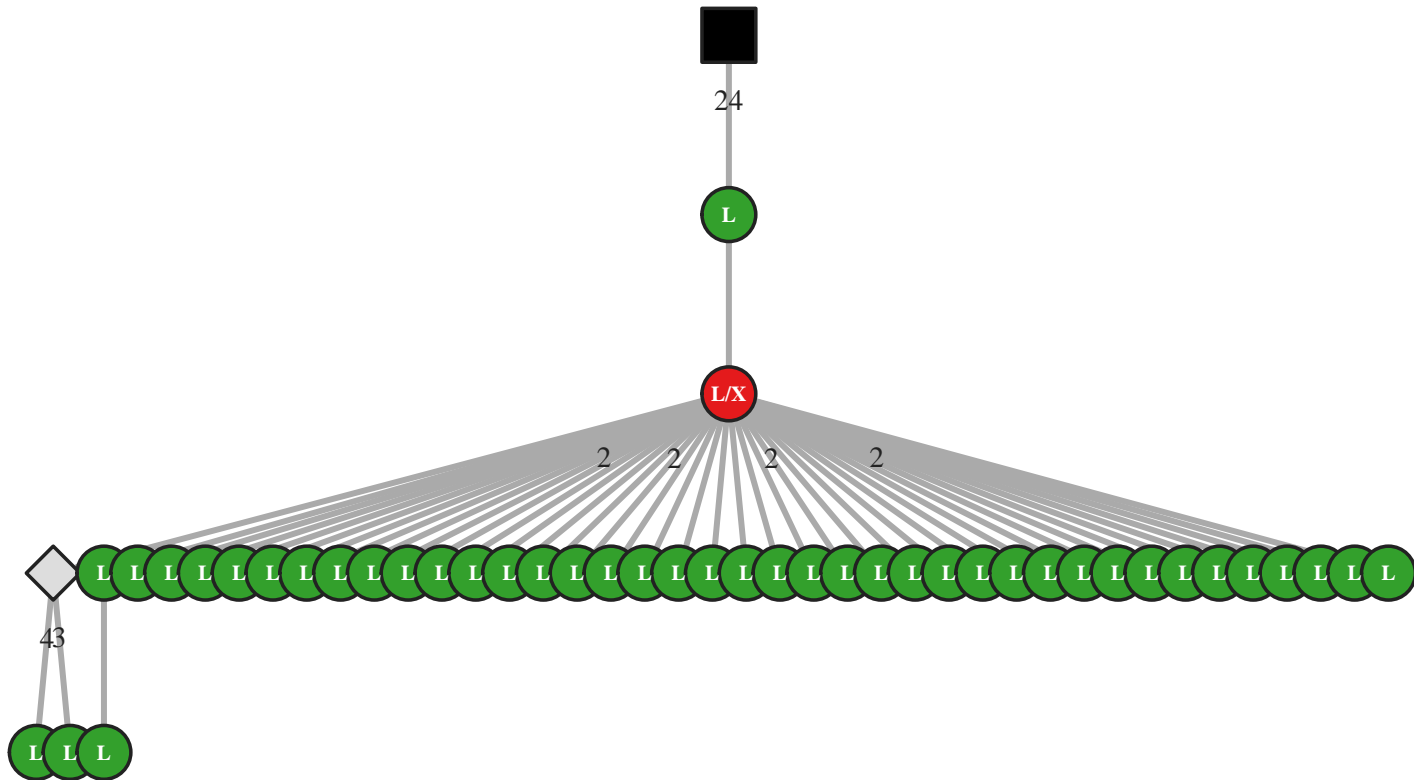
M3 IgG IGHV1-58/J5 30bp (11002)



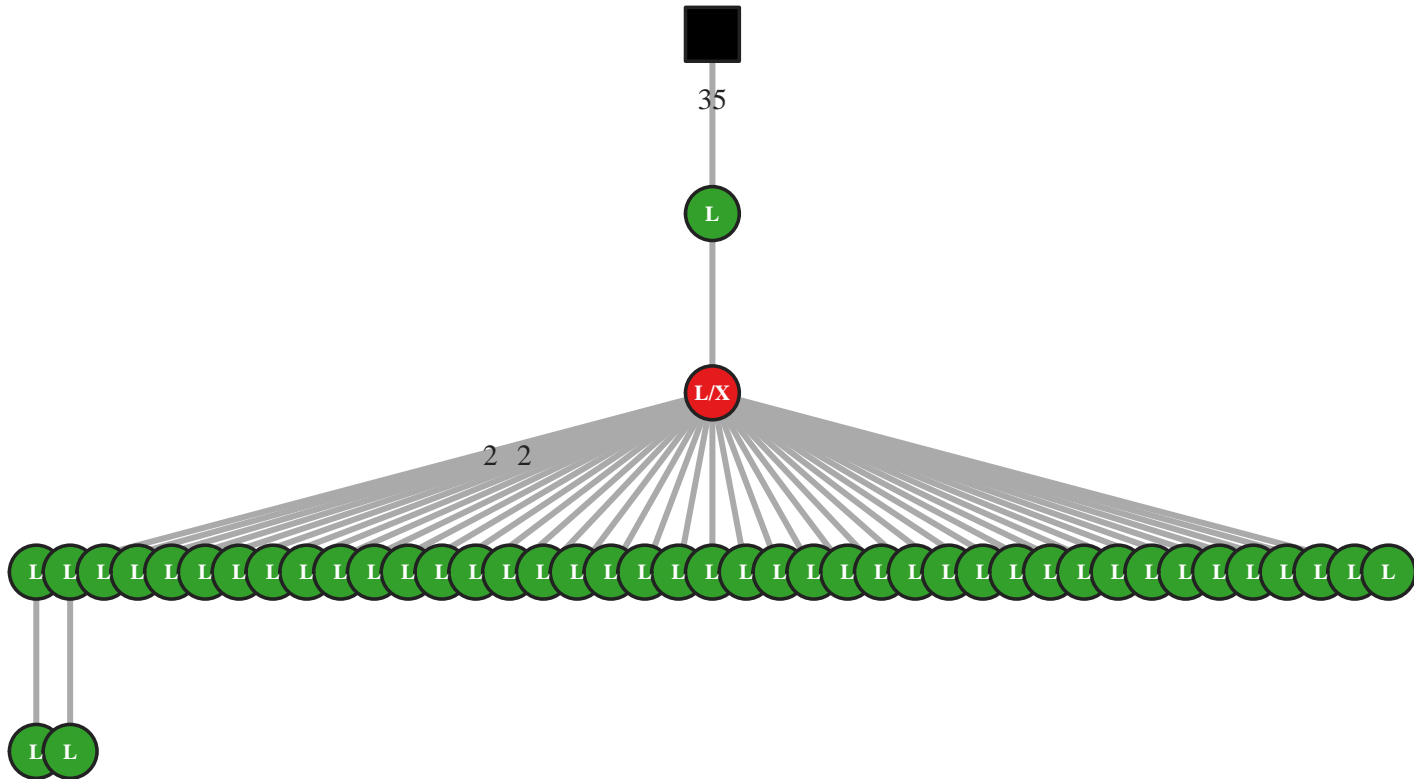
M3 IgG IGHV1-69/J3 39bp (11007)



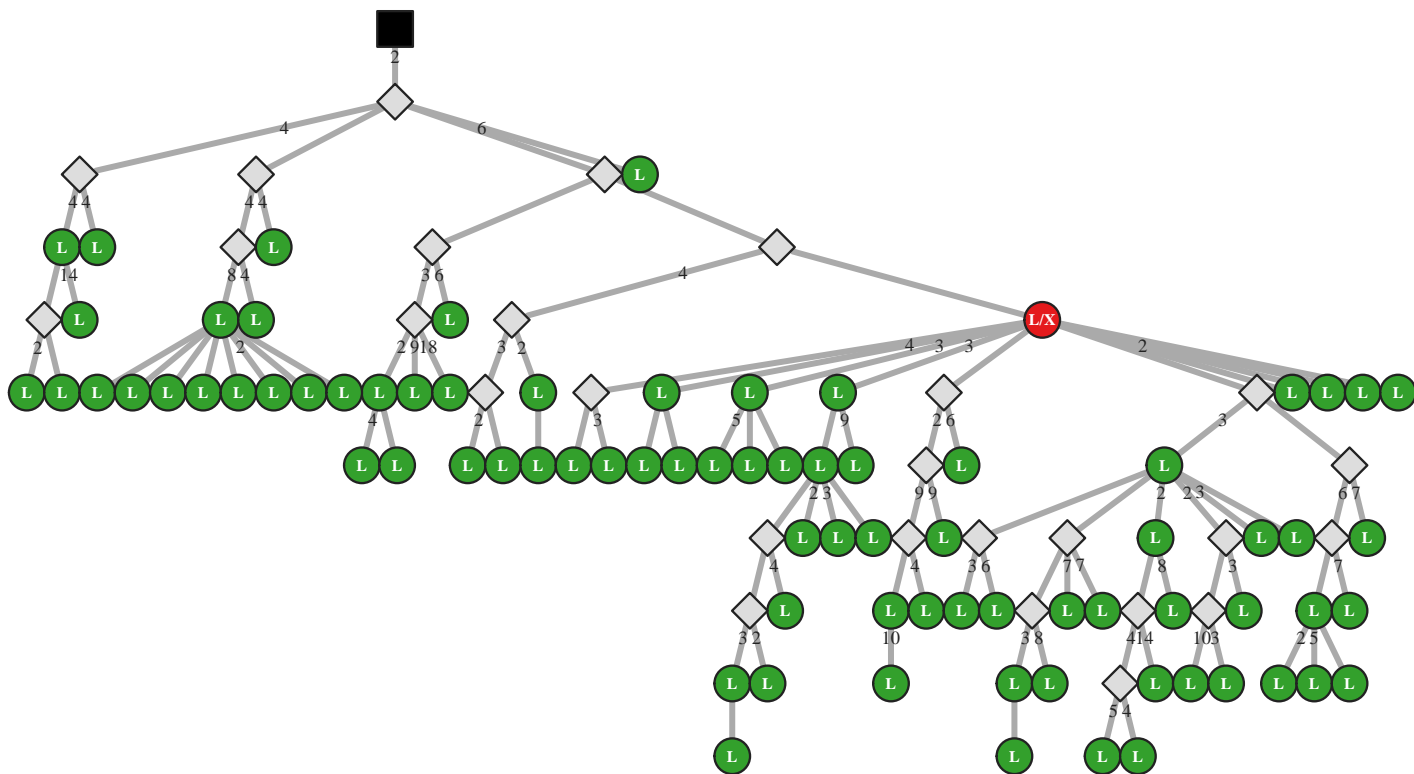
M3 IgG IGHV1-69/J4 42bp (2906)



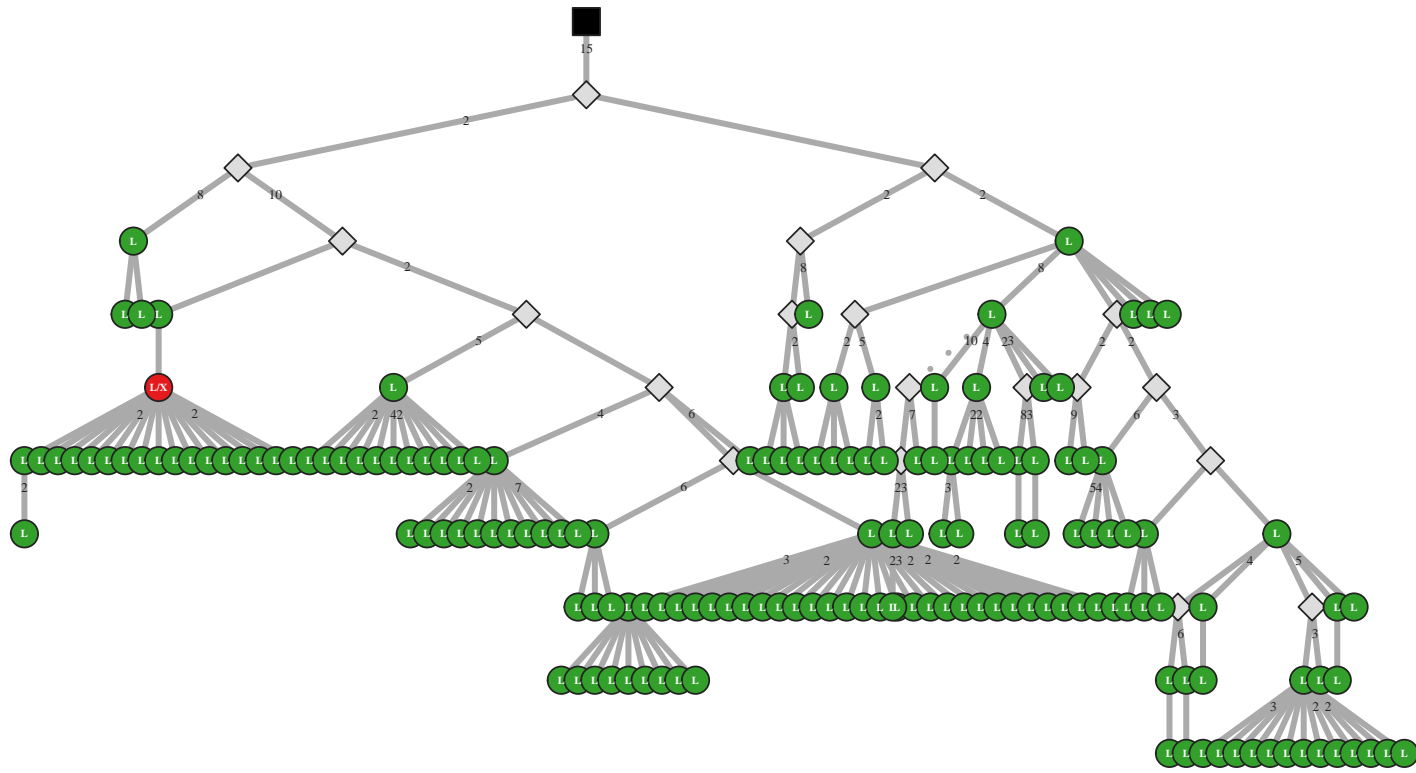
M3 IgG IGHV1-69/J4 45bp (6967)



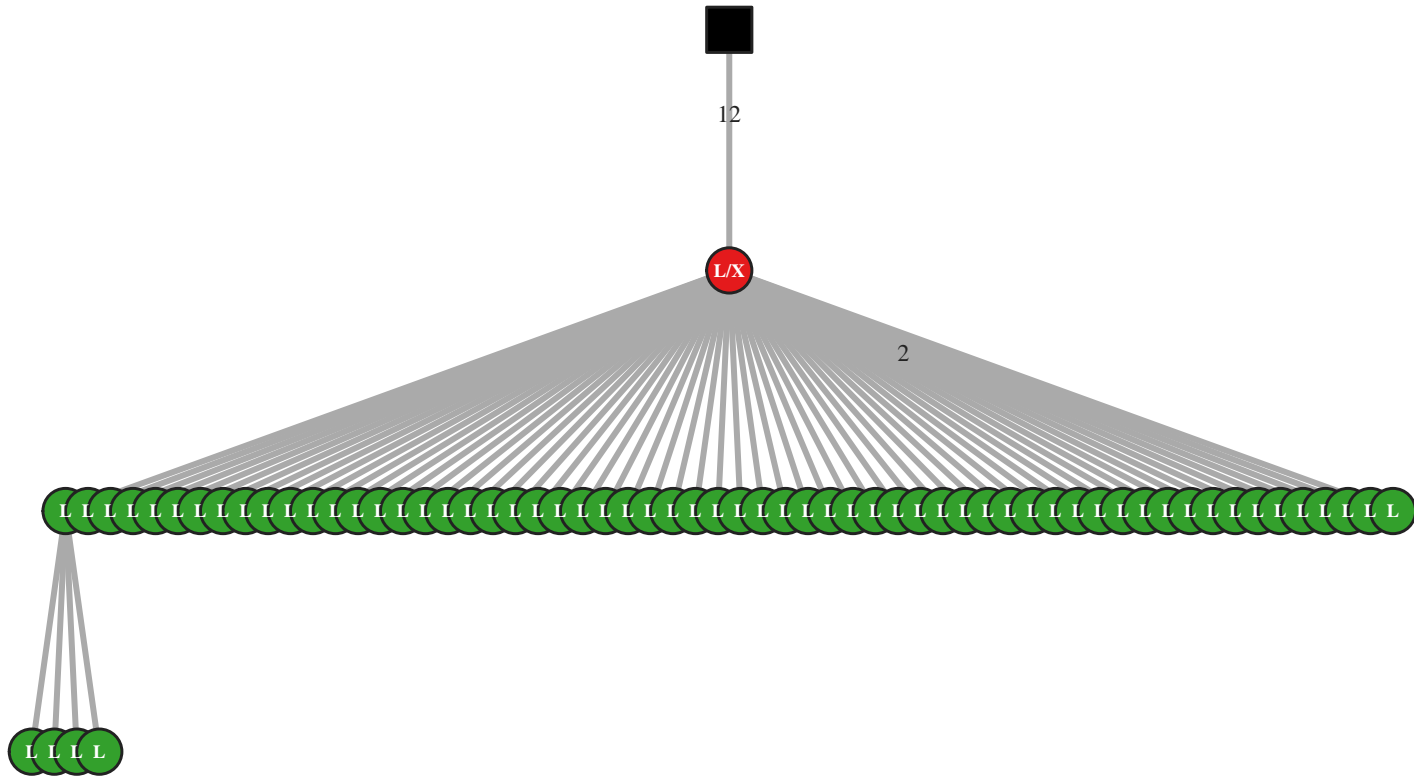
M3 IgM IGHV1-69/J4 51bp (12884)



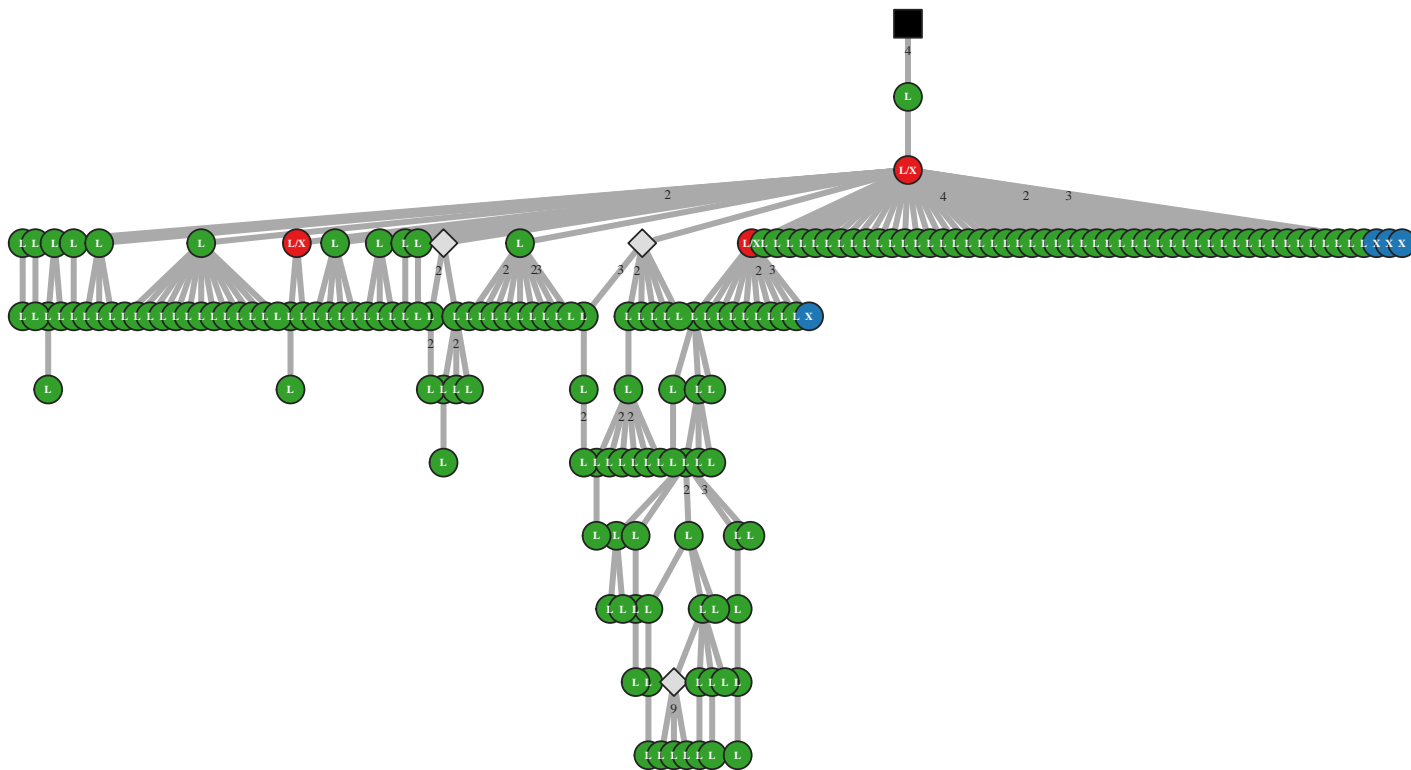
M3 IgG IGHV1-8/J4 45bp (2990)



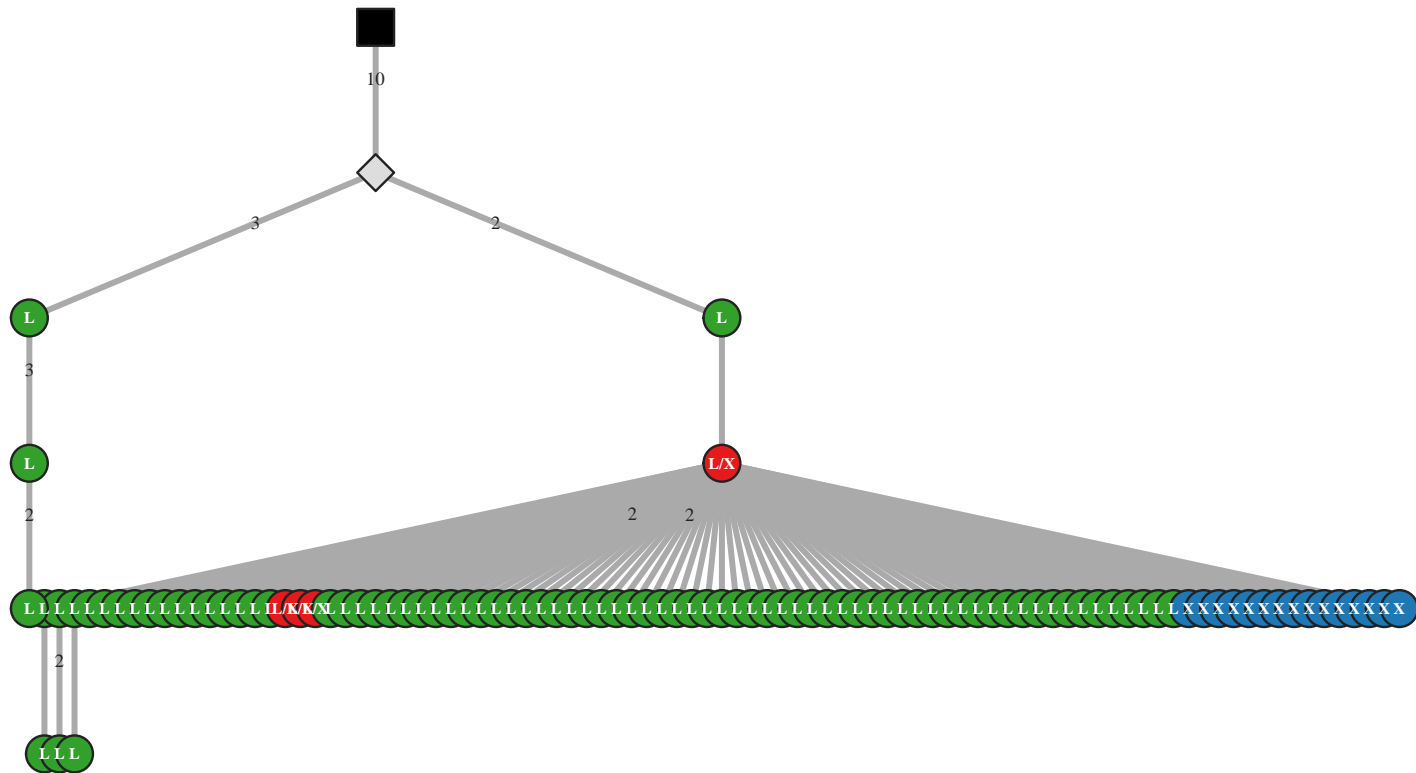
M3 IgA IGHV1-8/J6 66bp (1908)



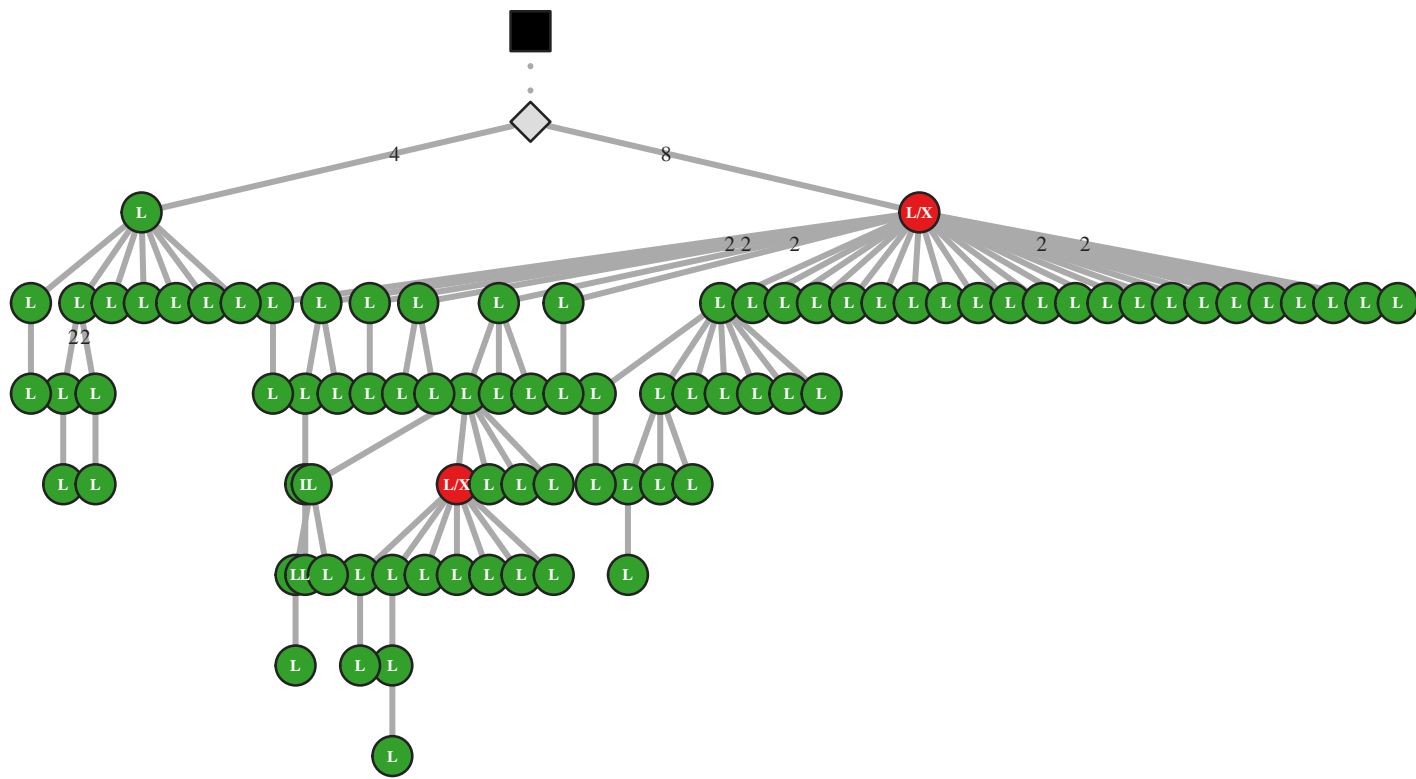
M3 IgG IGHV2-26/J4 51bp (3019)



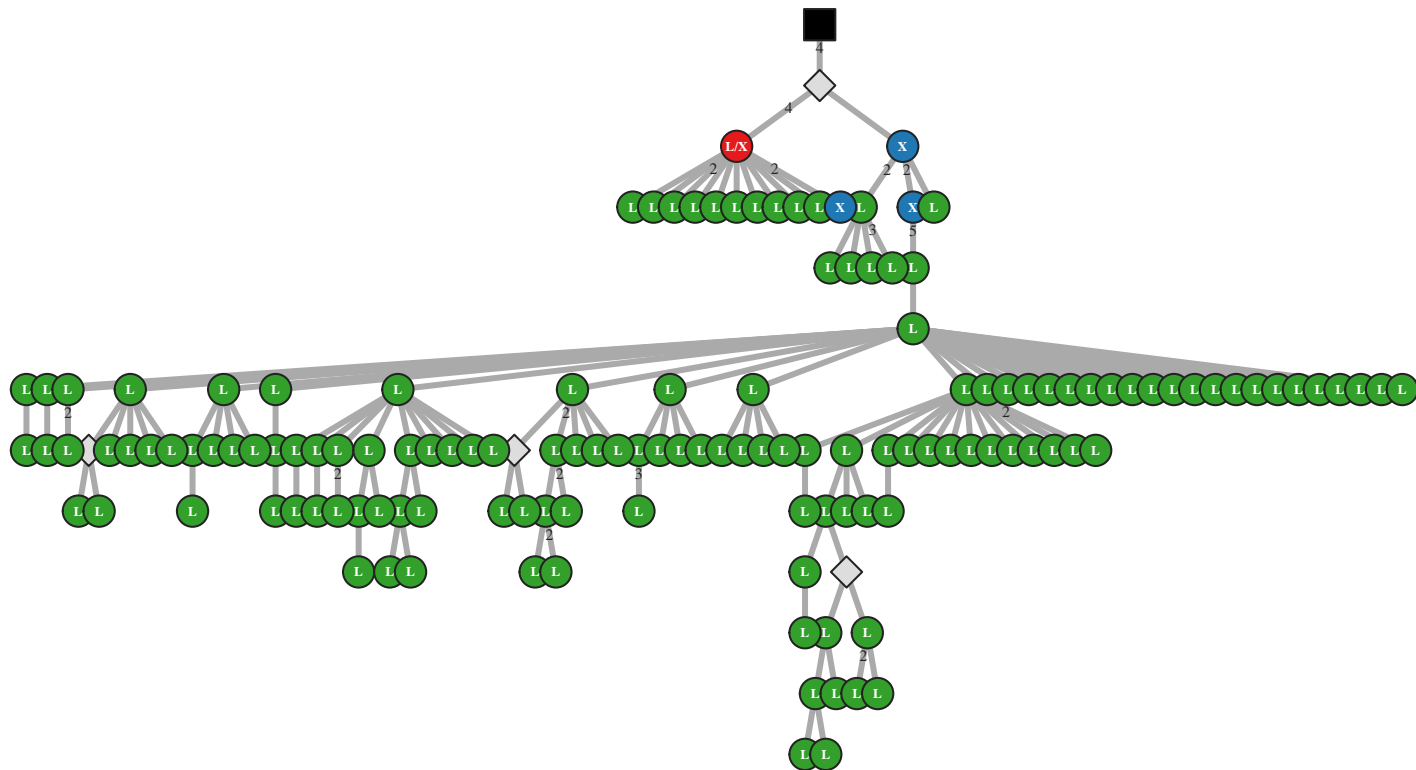
M3 IgG IGHV2-26/J4 63bp (7028)



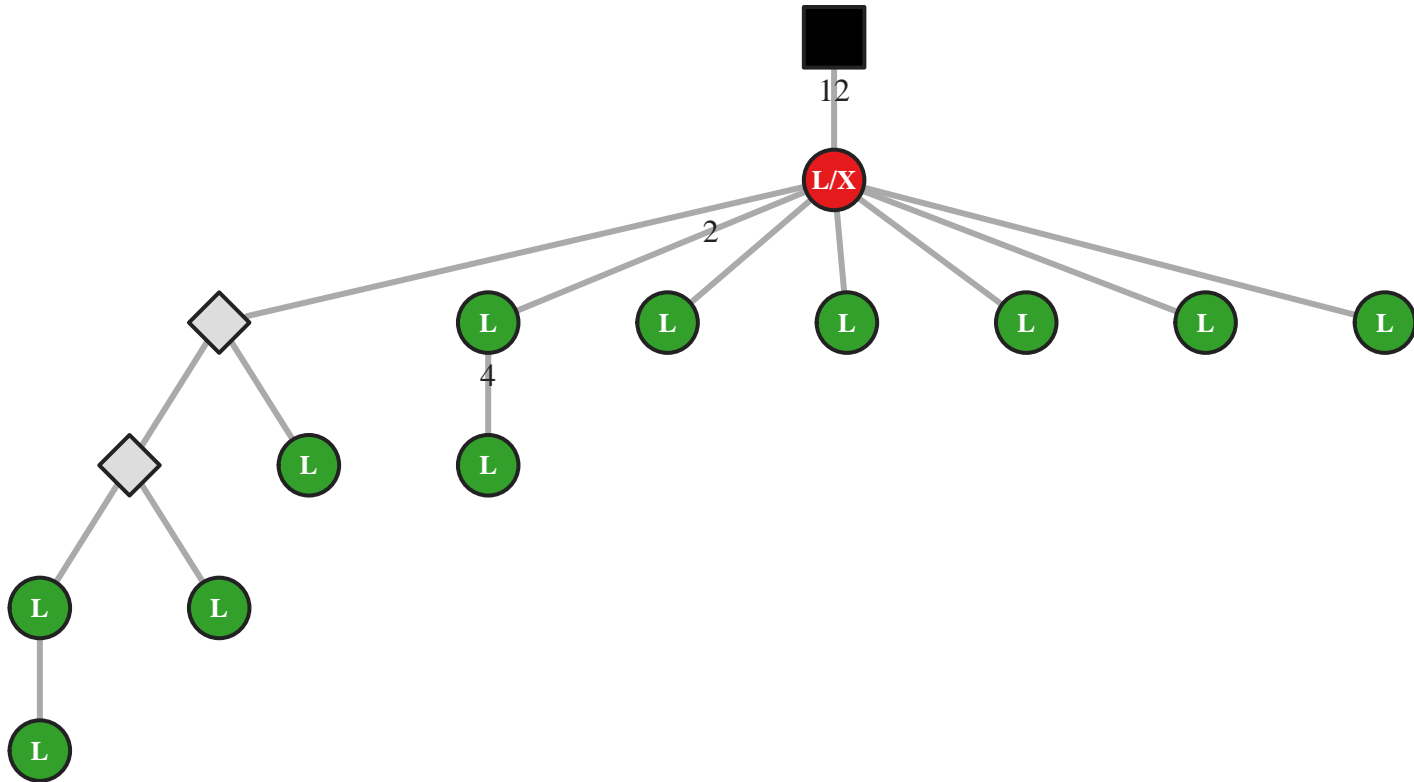
M3 IgG IGHV2-26/J5 60bp (11091)



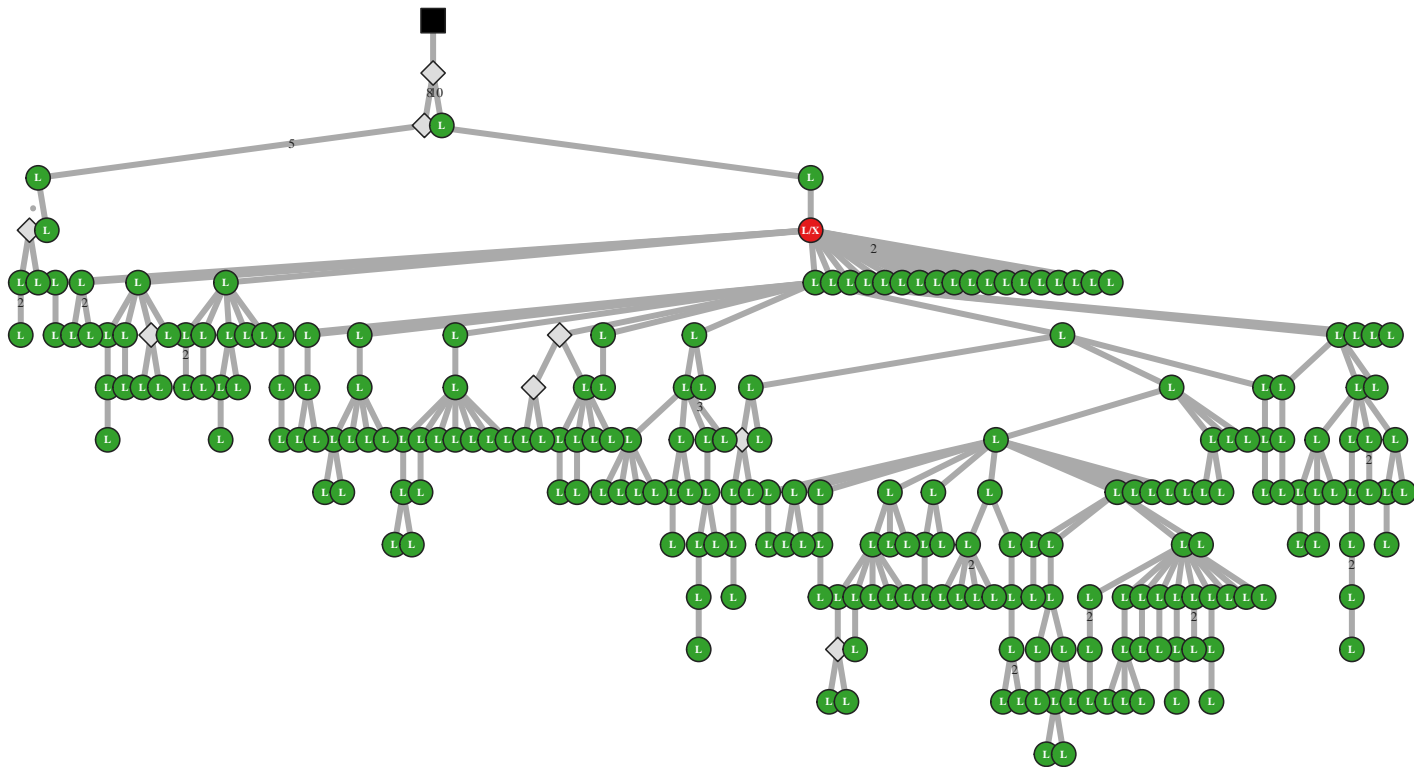
M3 IgG IGHV2-26/J5 69bp (7033)



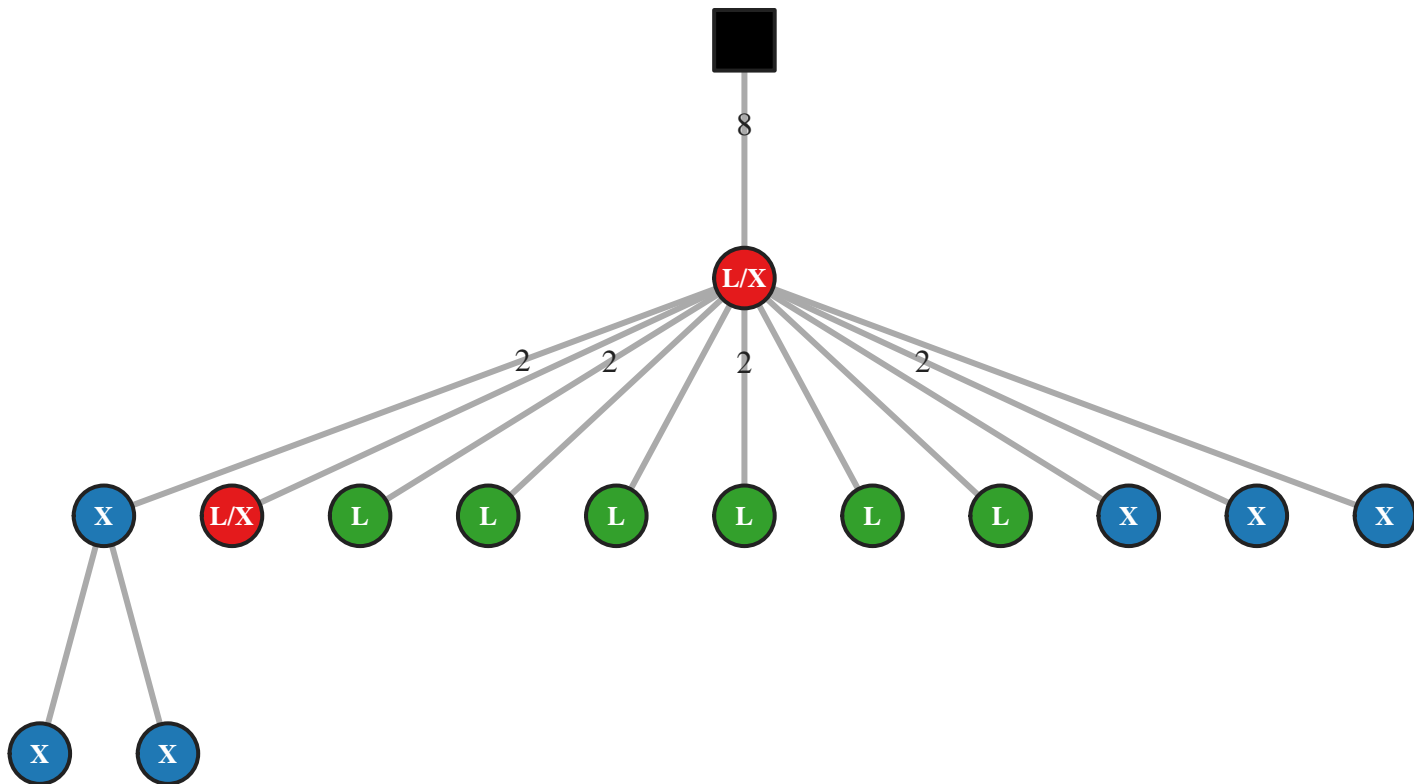
M3 IgM IGHV2-26/J6 45bp (15626)



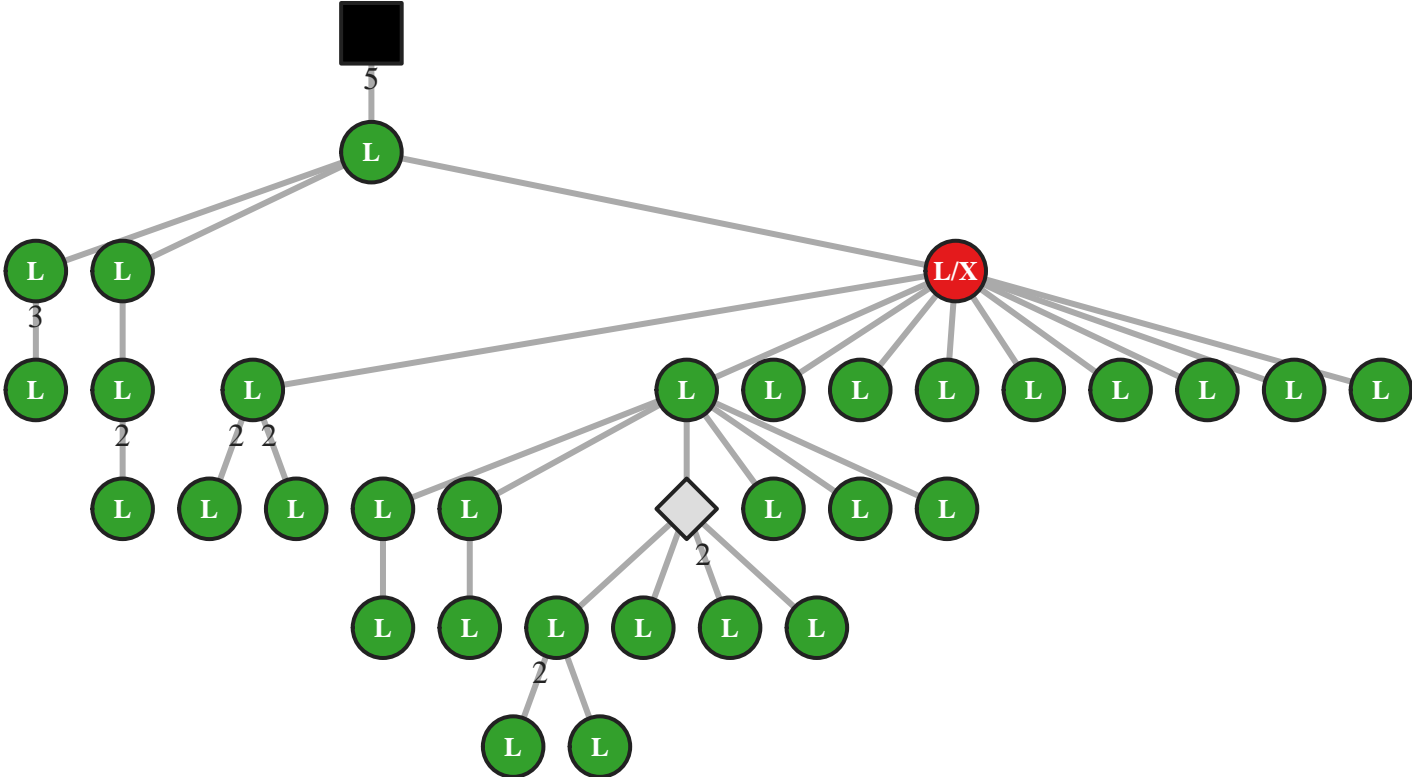
M3 IgG IGHV2-26/J6 69bp (11094)



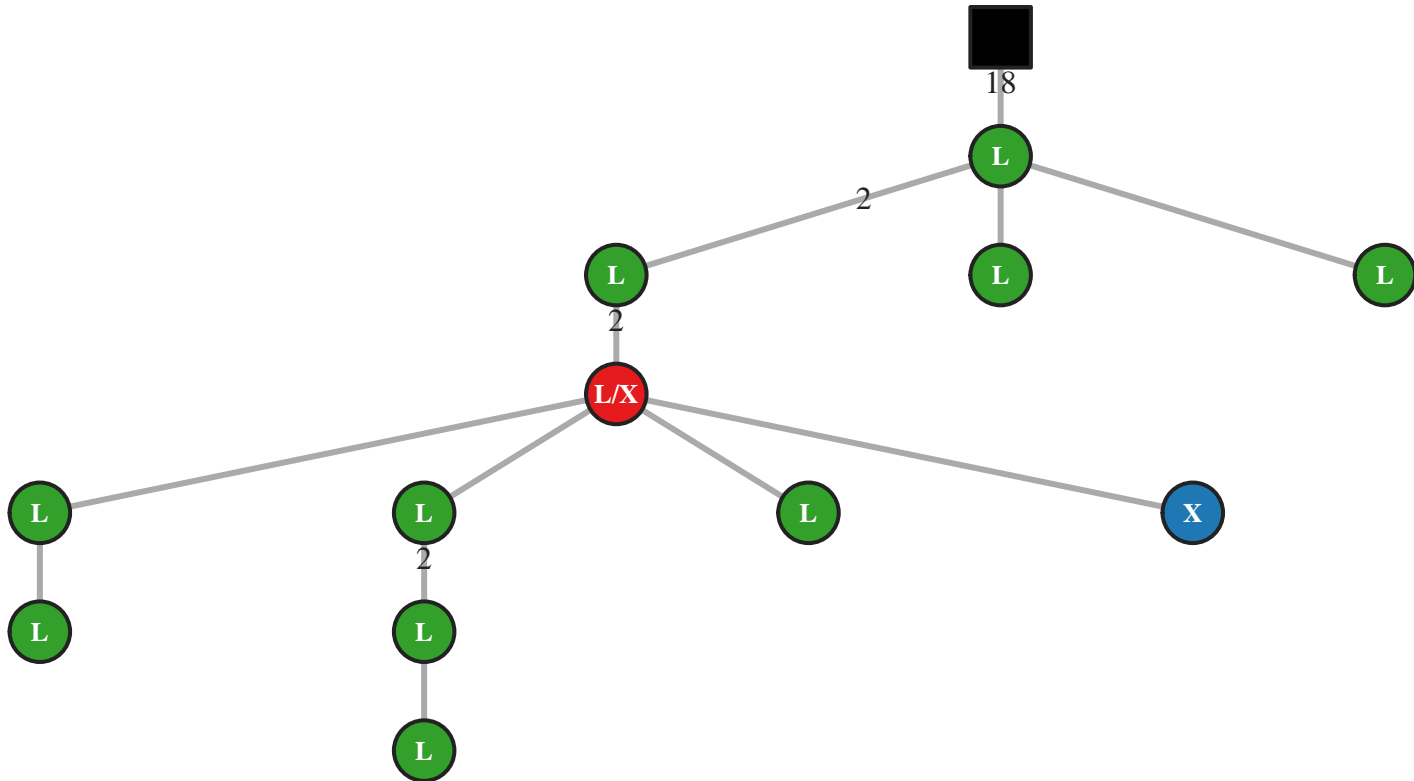
M3 IgG IGHV2-26/J6 72bp (14680)



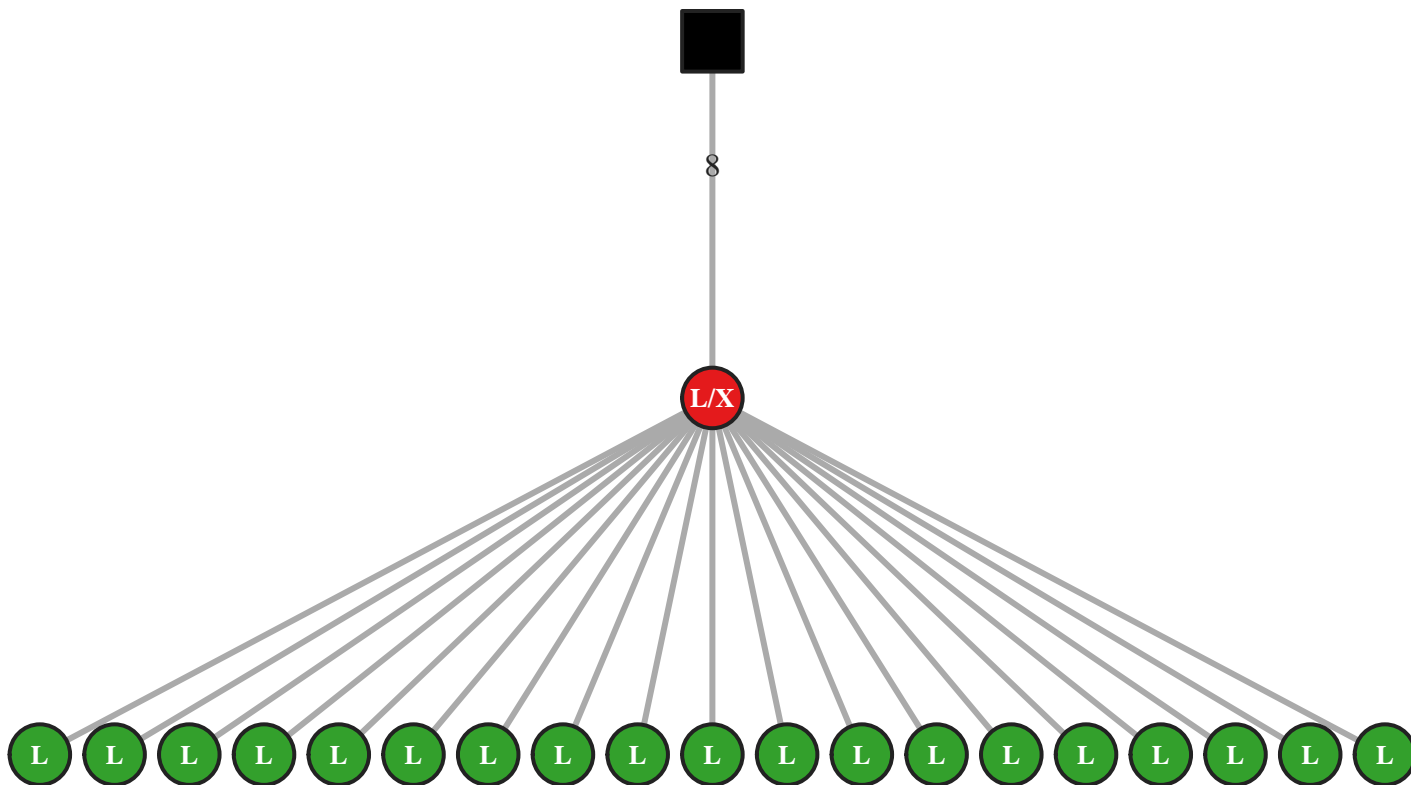
M3 IgG IGHV2-26/J6 72bp (14681)



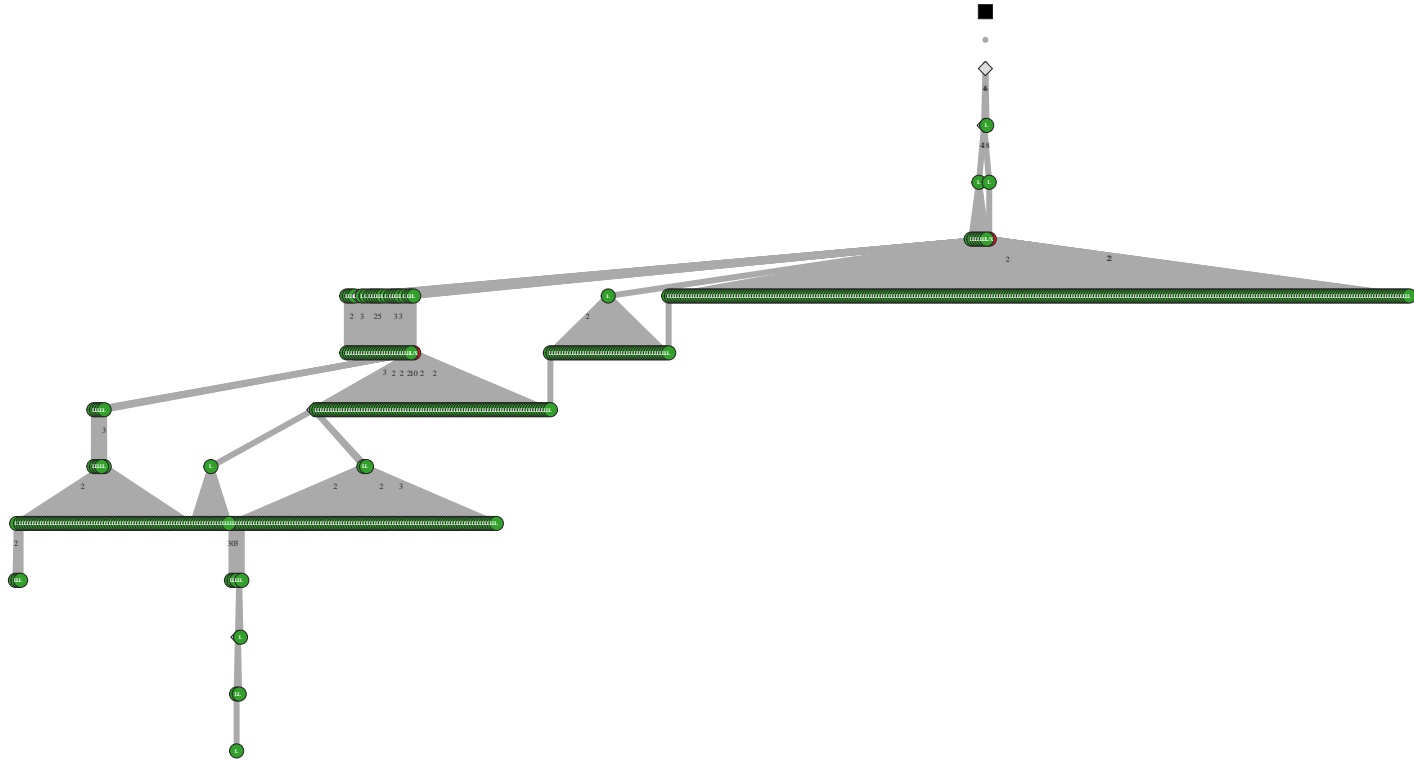
M3 IgG IGHV2-5/J3 63bp (3027)



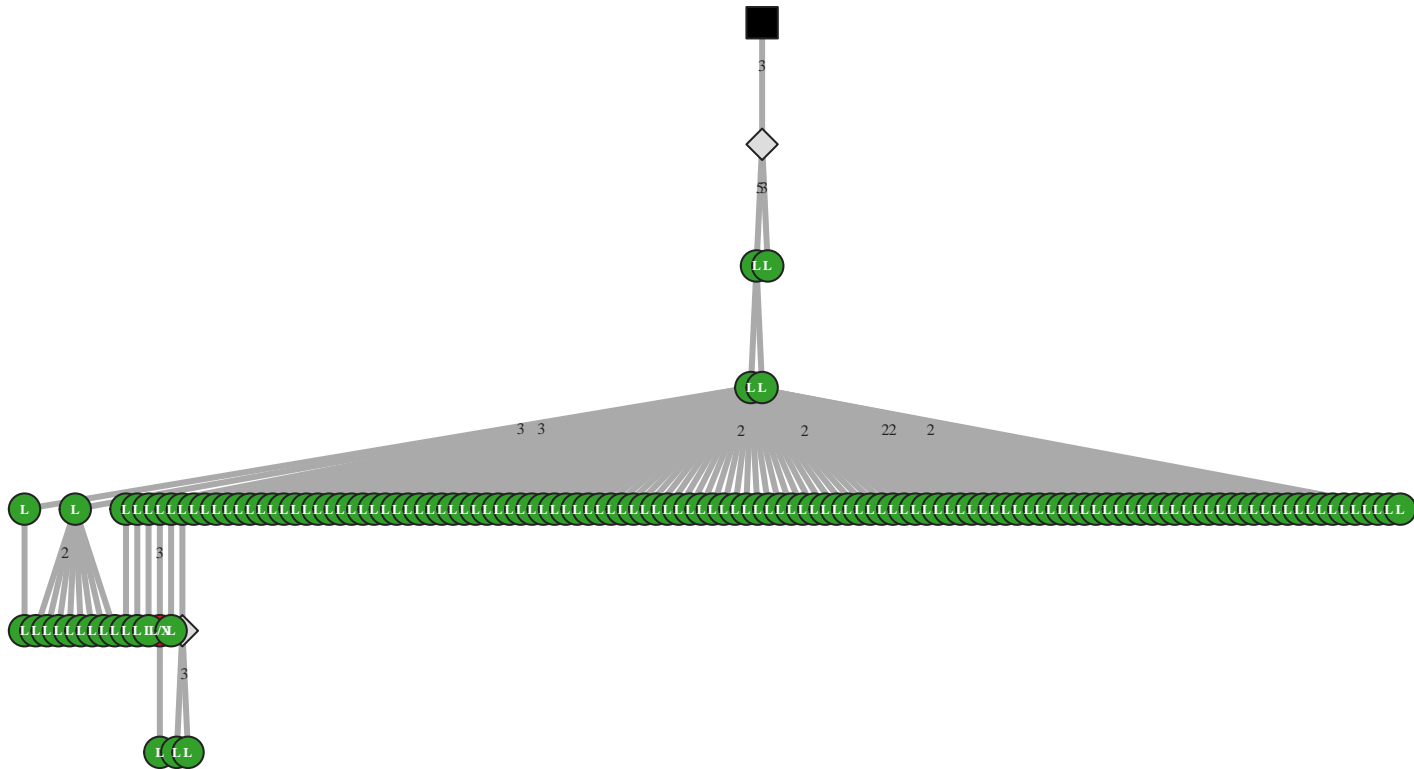
M3 IgA IGHV2-5/J3 75bp (14155)



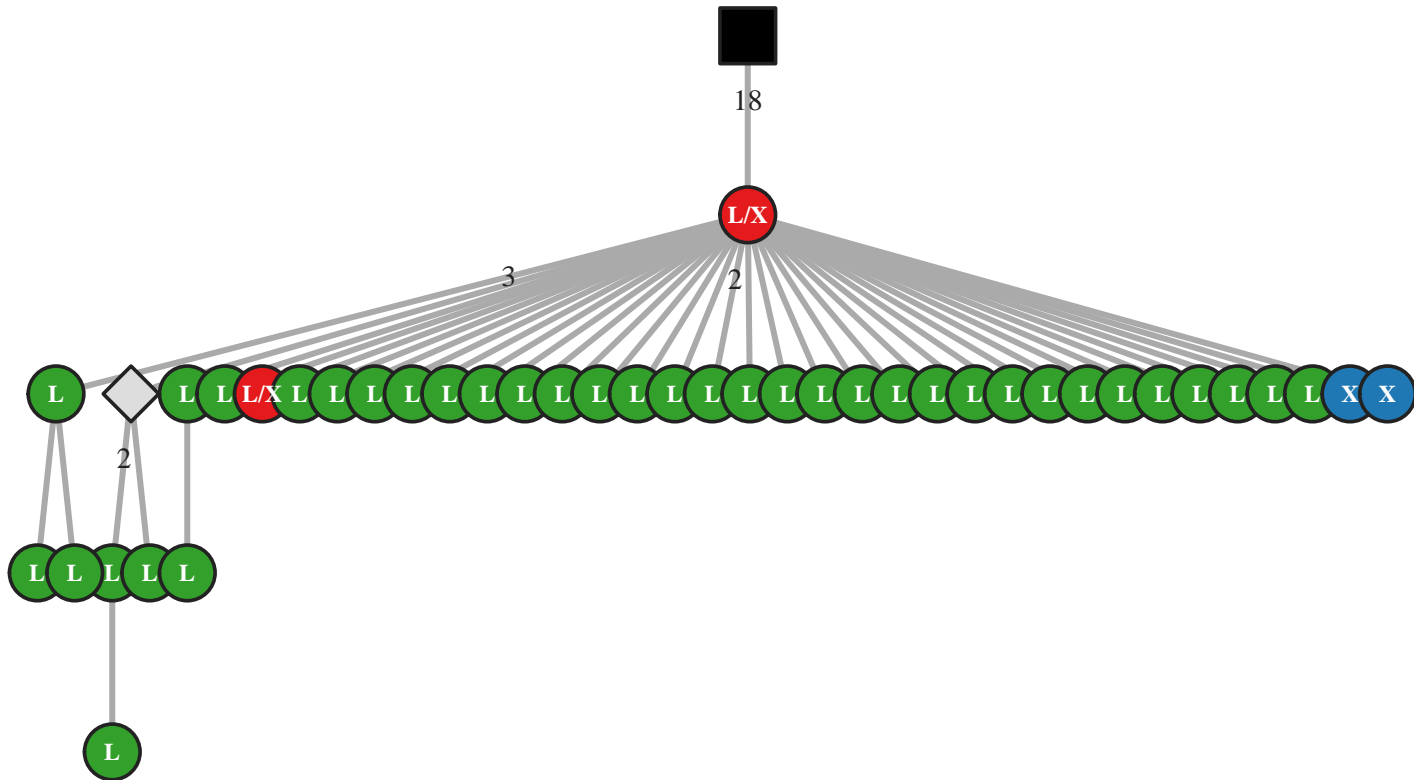
M3 IgG IGHV2-5/J4 24bp (11107)



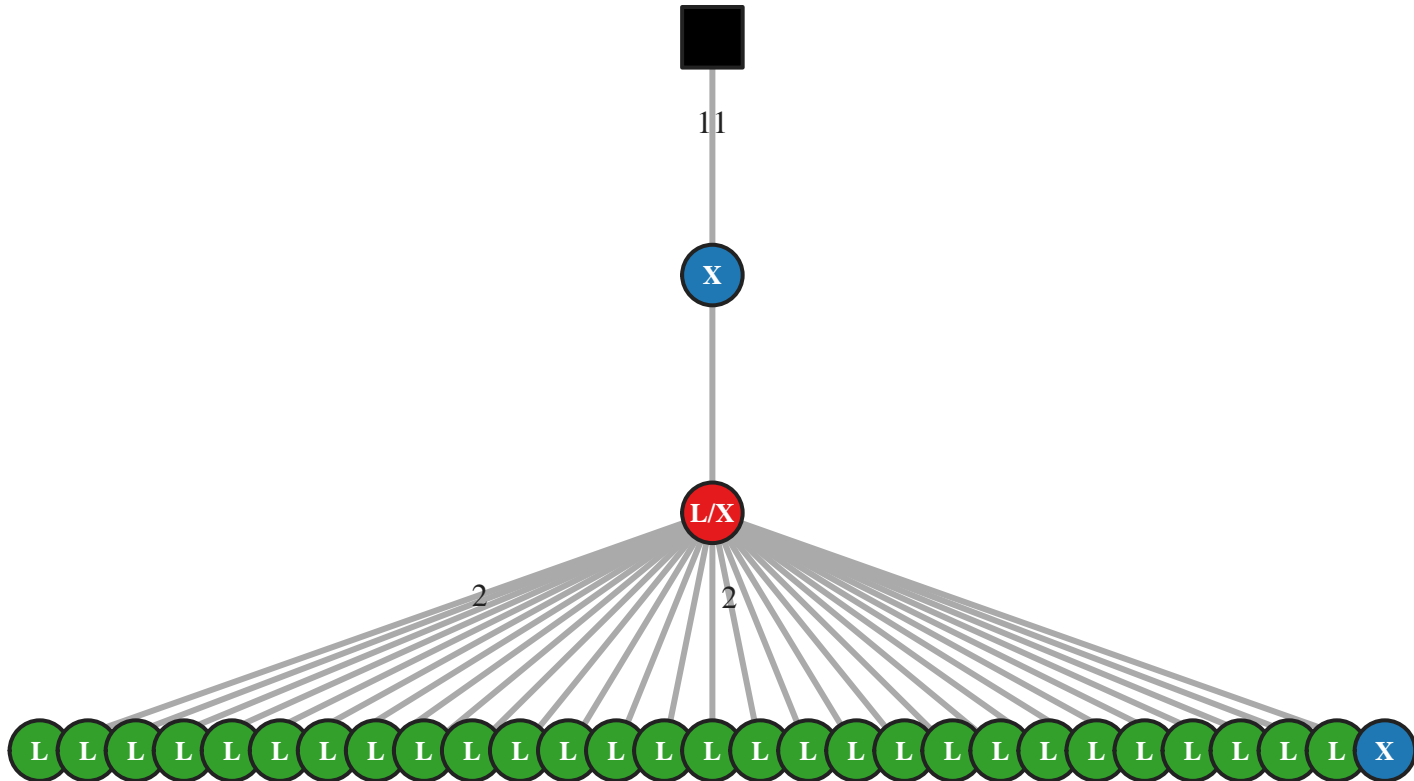
M3 IgG IGHV2-5/J4 24bp (11108)



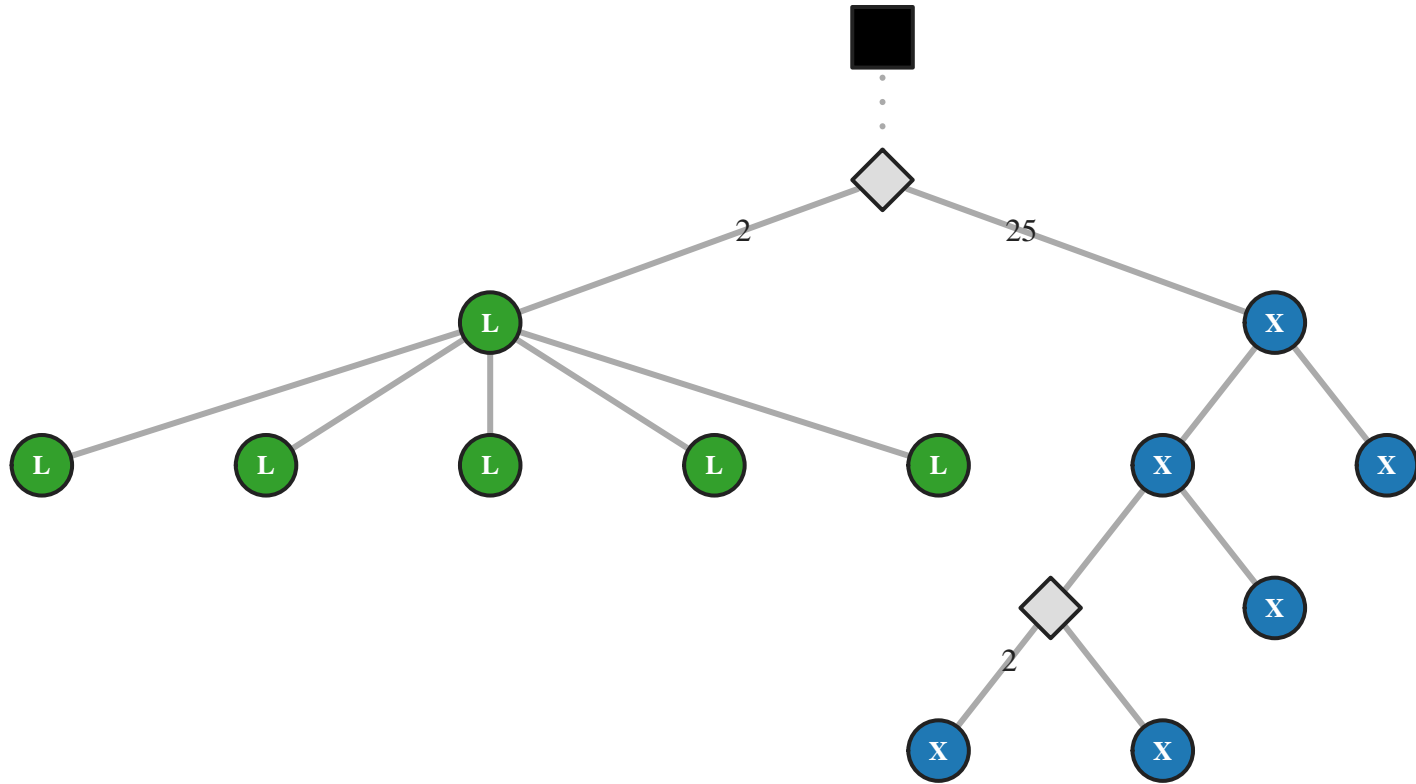
M3 IgG IGHV2-5/J4 42bp (3031)



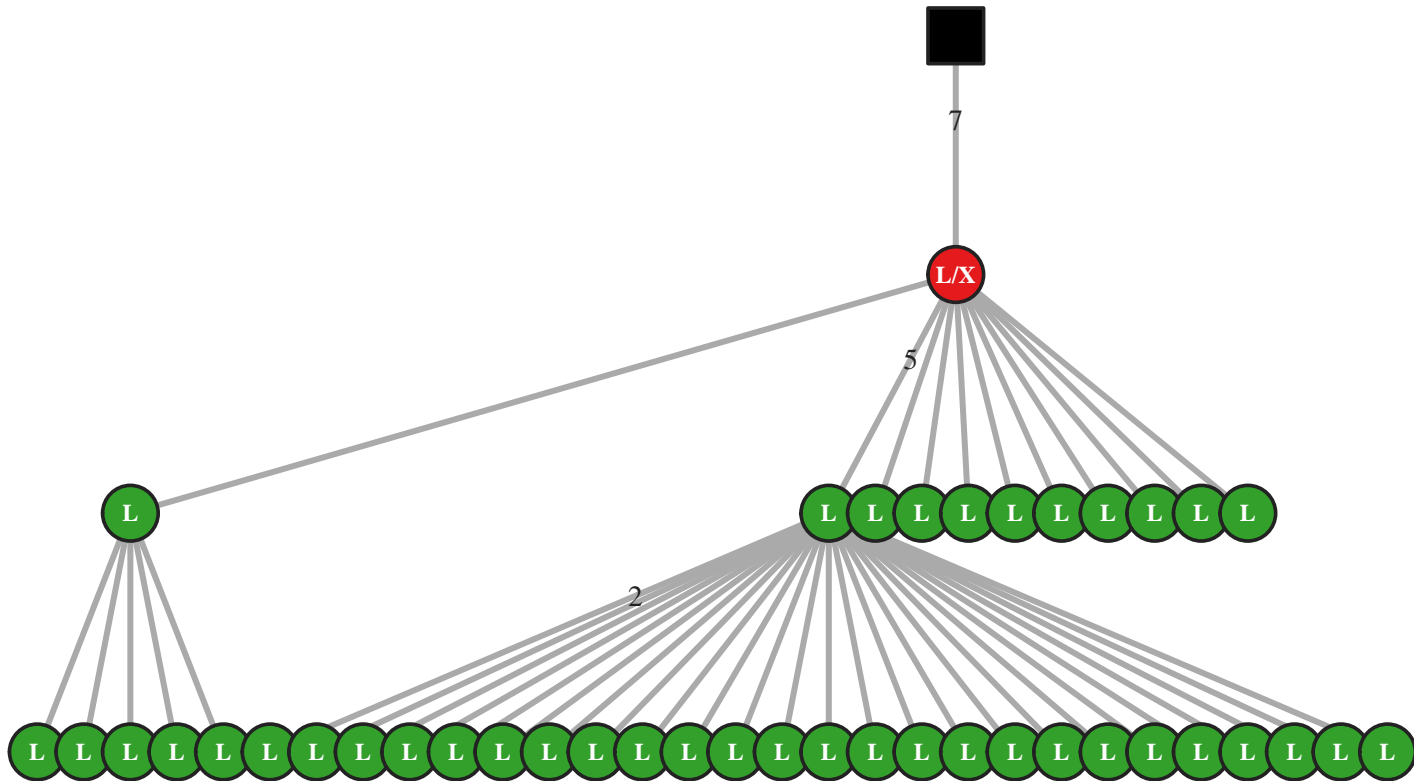
M3 IgG IGHV2-5/J4 51bp (7063)



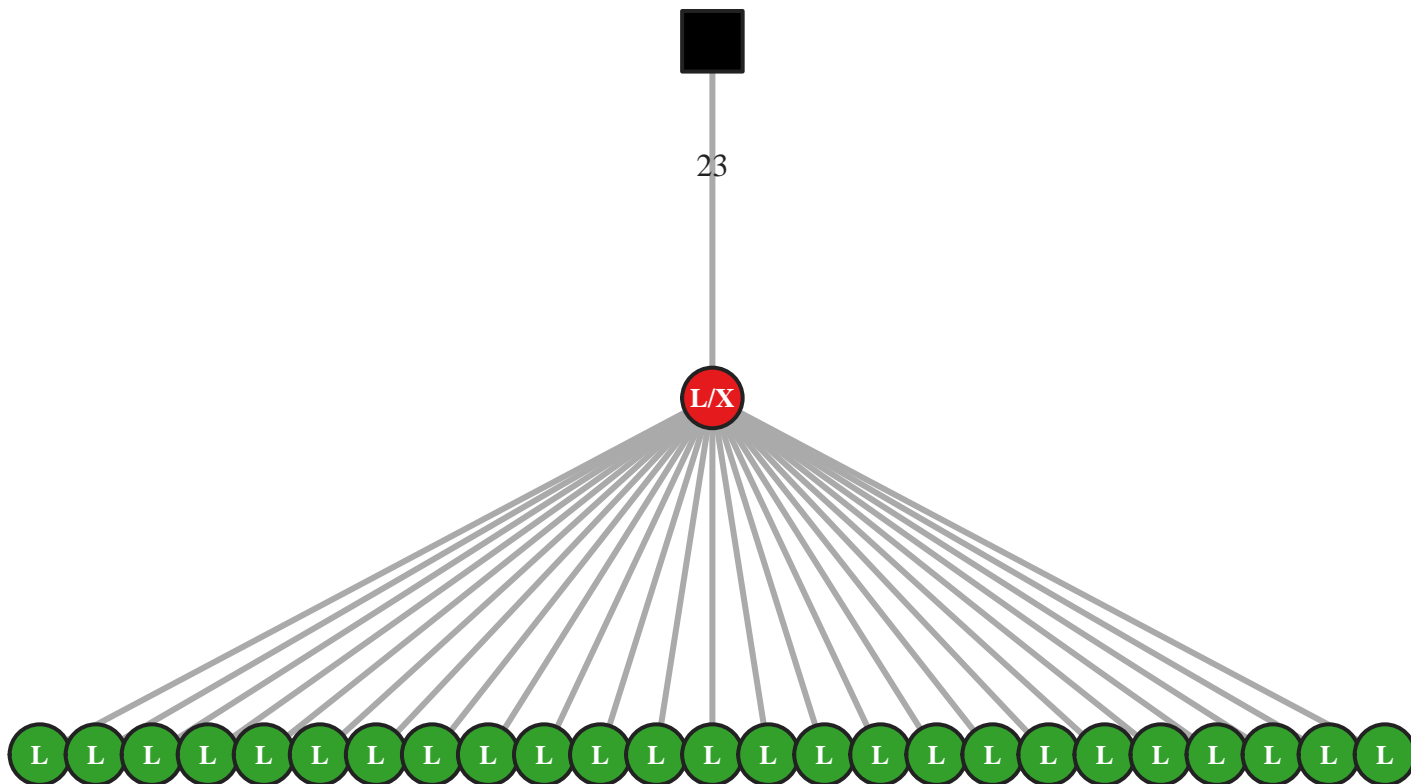
M3 IgG IGHV2-5/J4 54bp (7077)



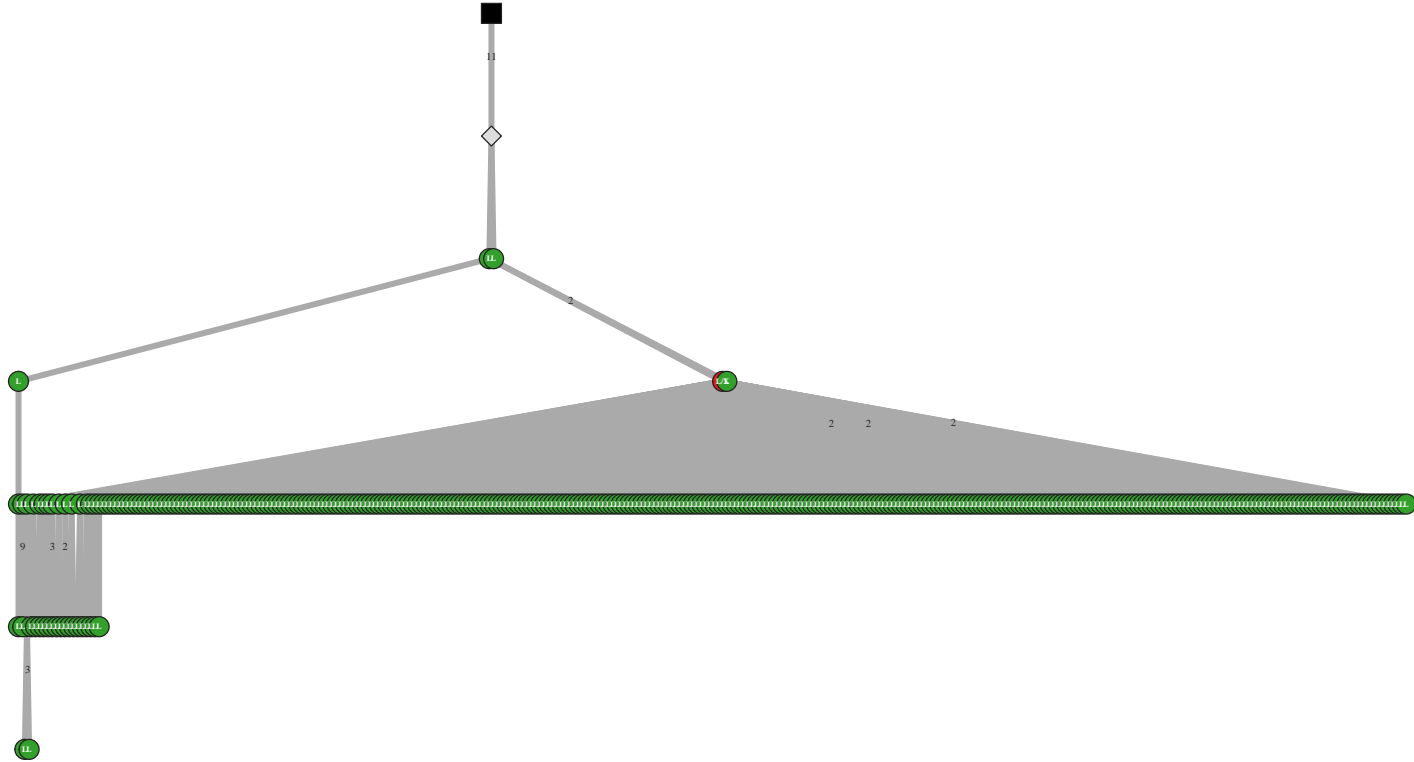
M3 IgG IGHV2-5/J5 39bp (7082)



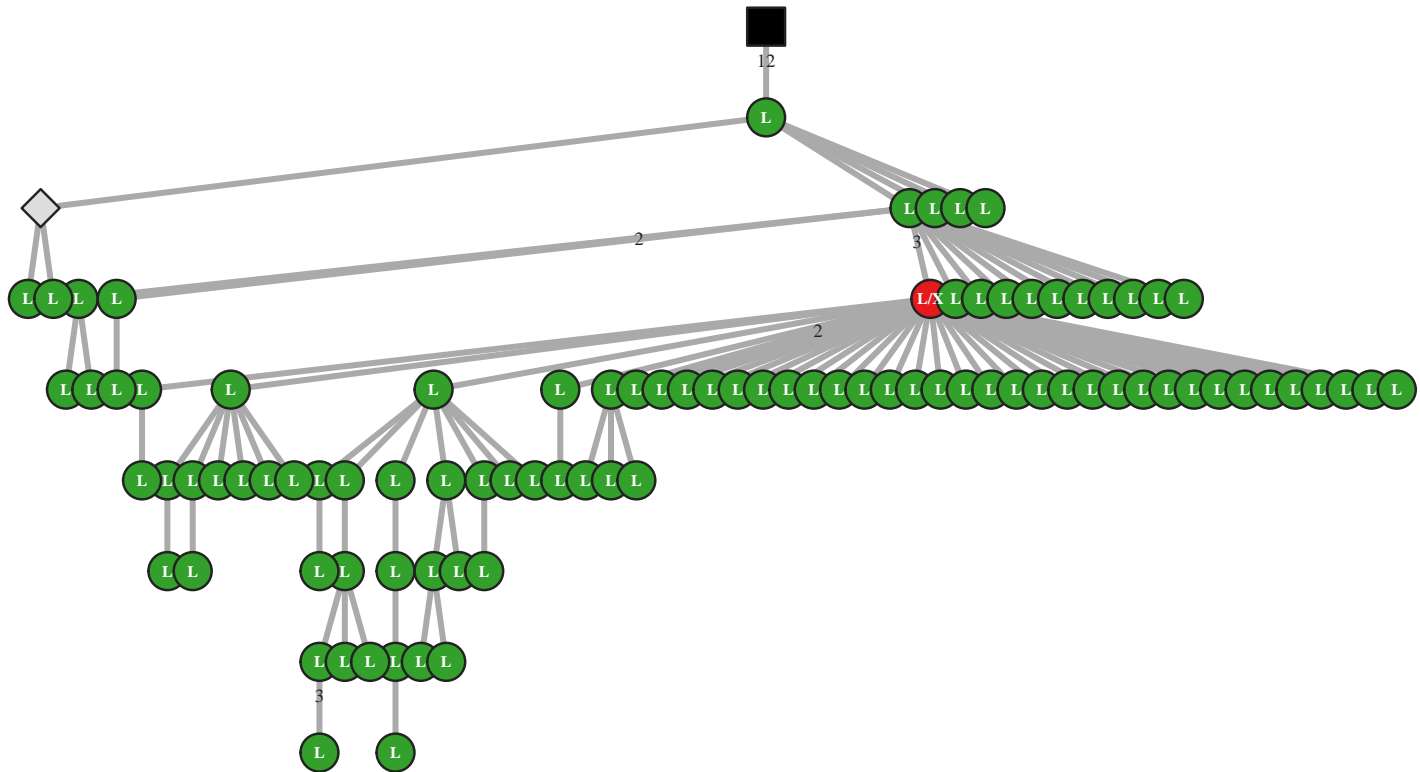
M3 IgG IGHV2-5/J5 60bp (11131)



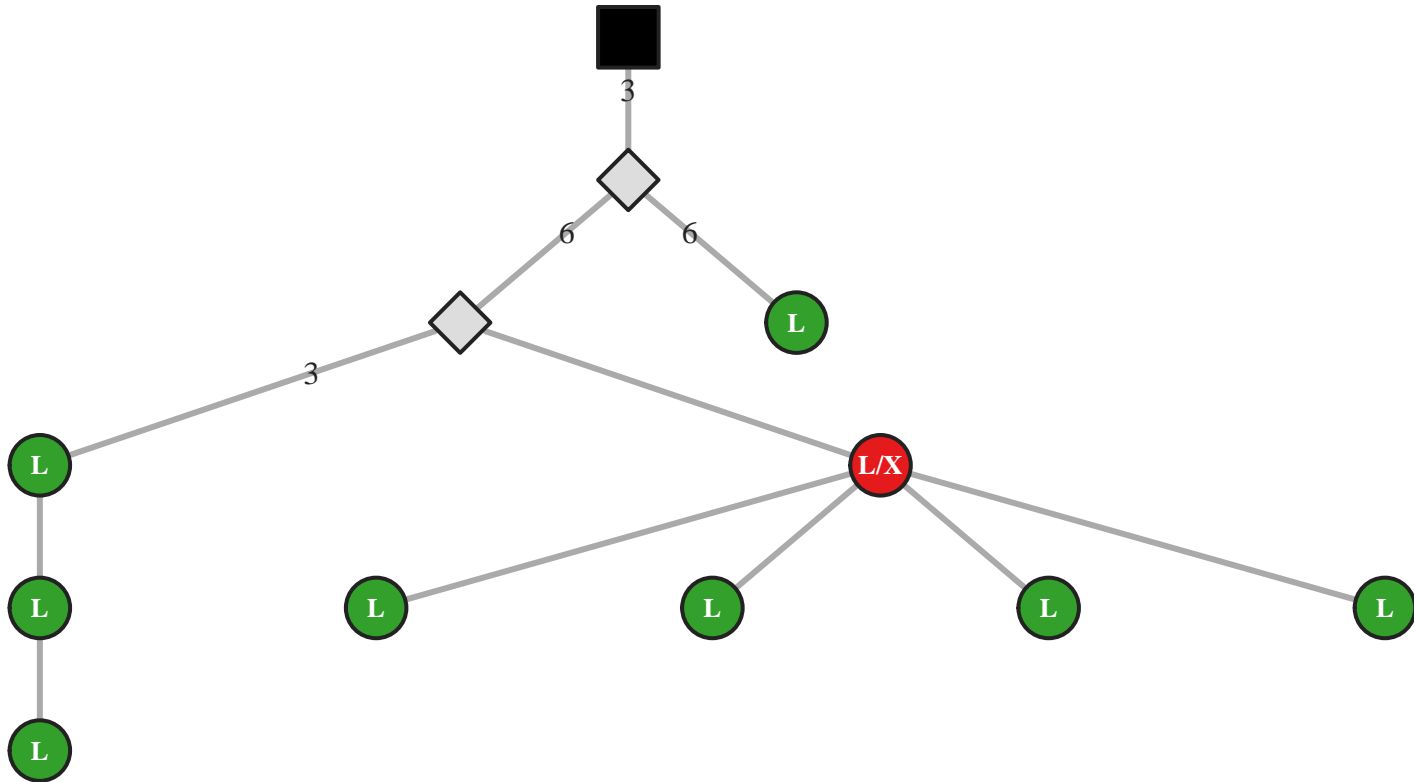
M3 IgG IGHV2-5/J6 36bp (14710)



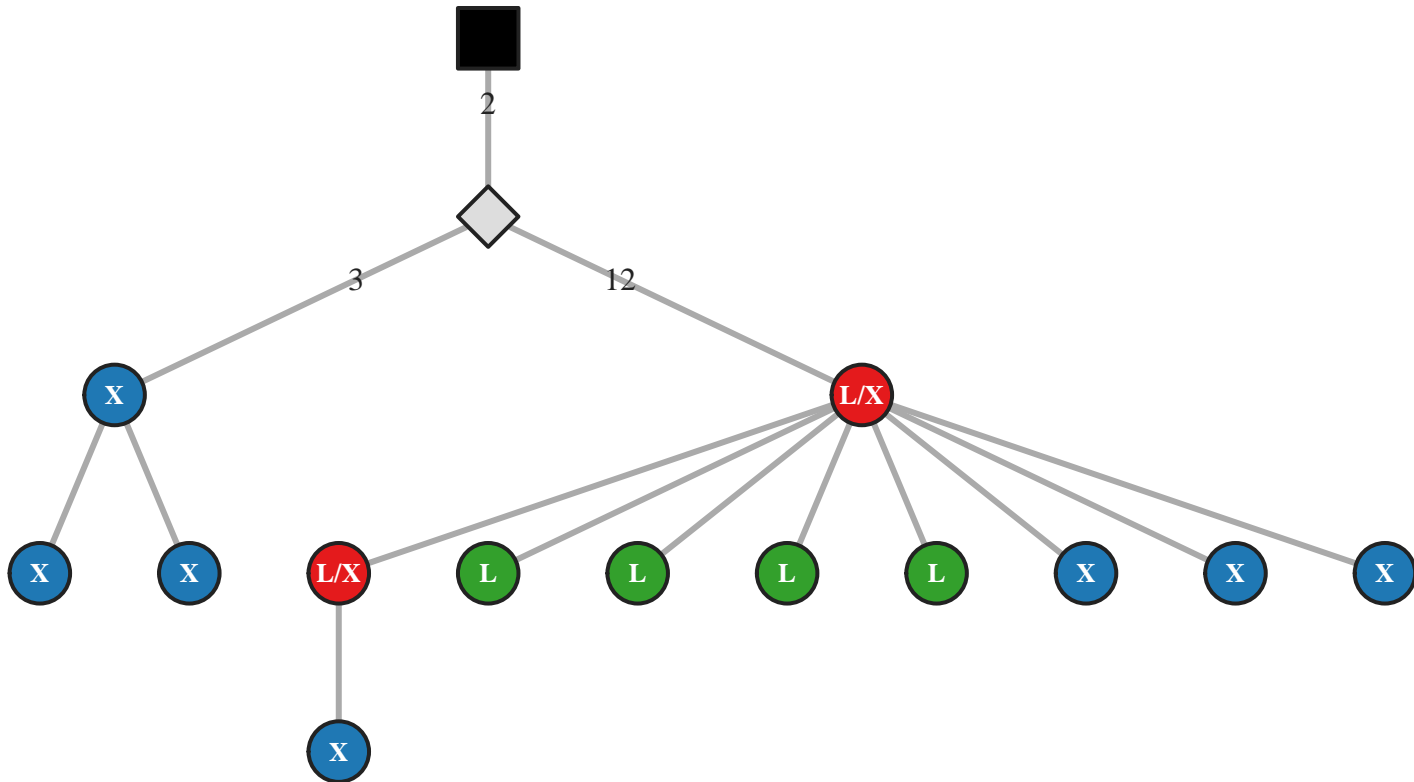
M3 IgA IGHV2-70/J4 57bp (5917)



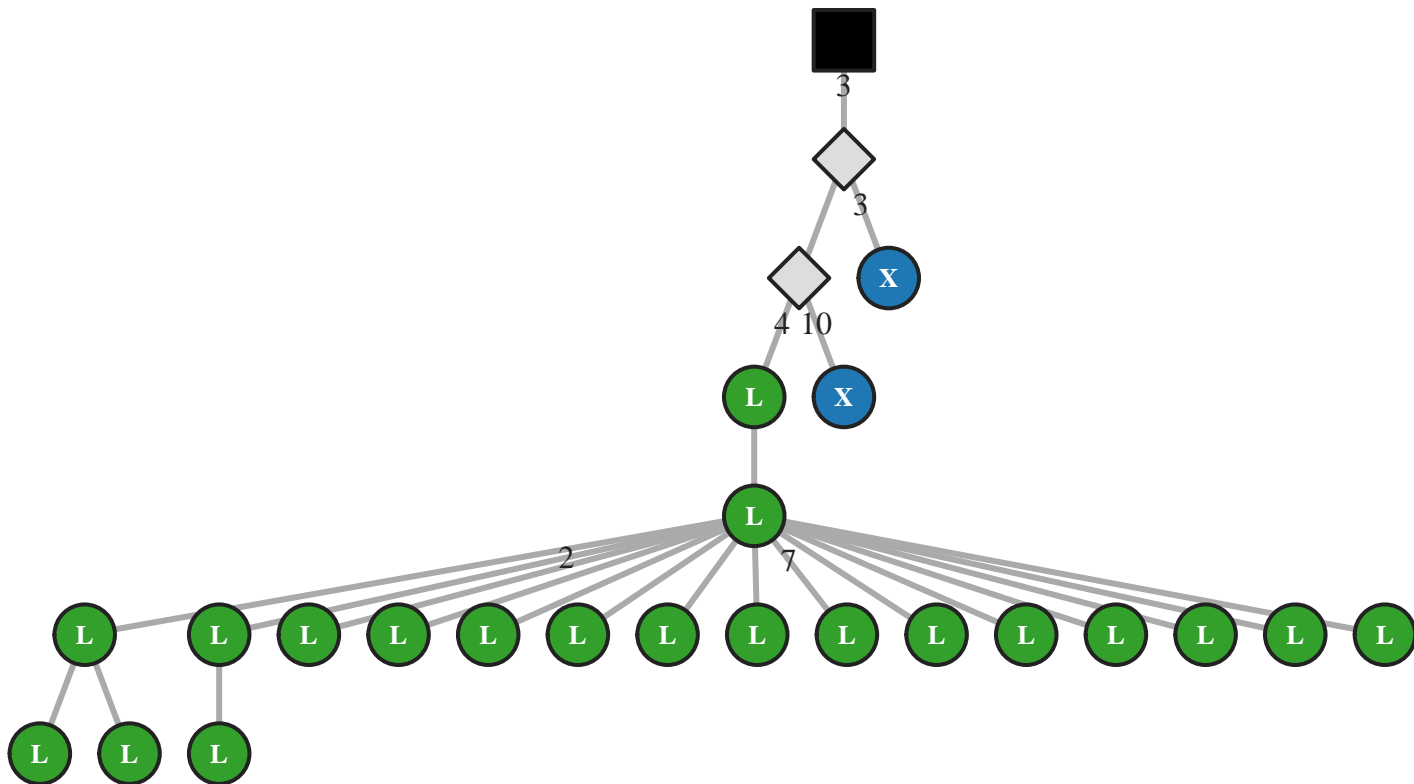
M3 IgA IGHV2-70/J4 66bp (1933)



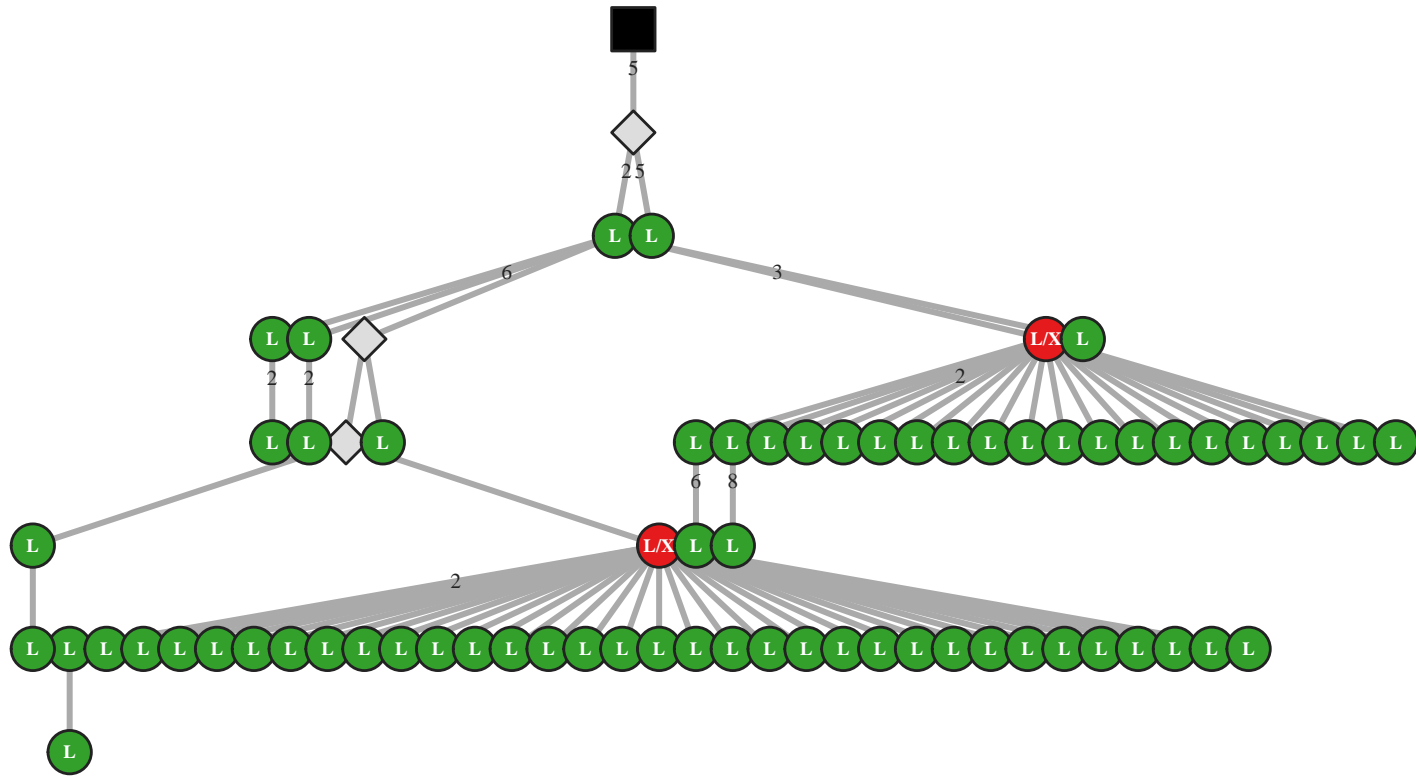
M3 IgG IGHV2-70/J6 60bp (3077)



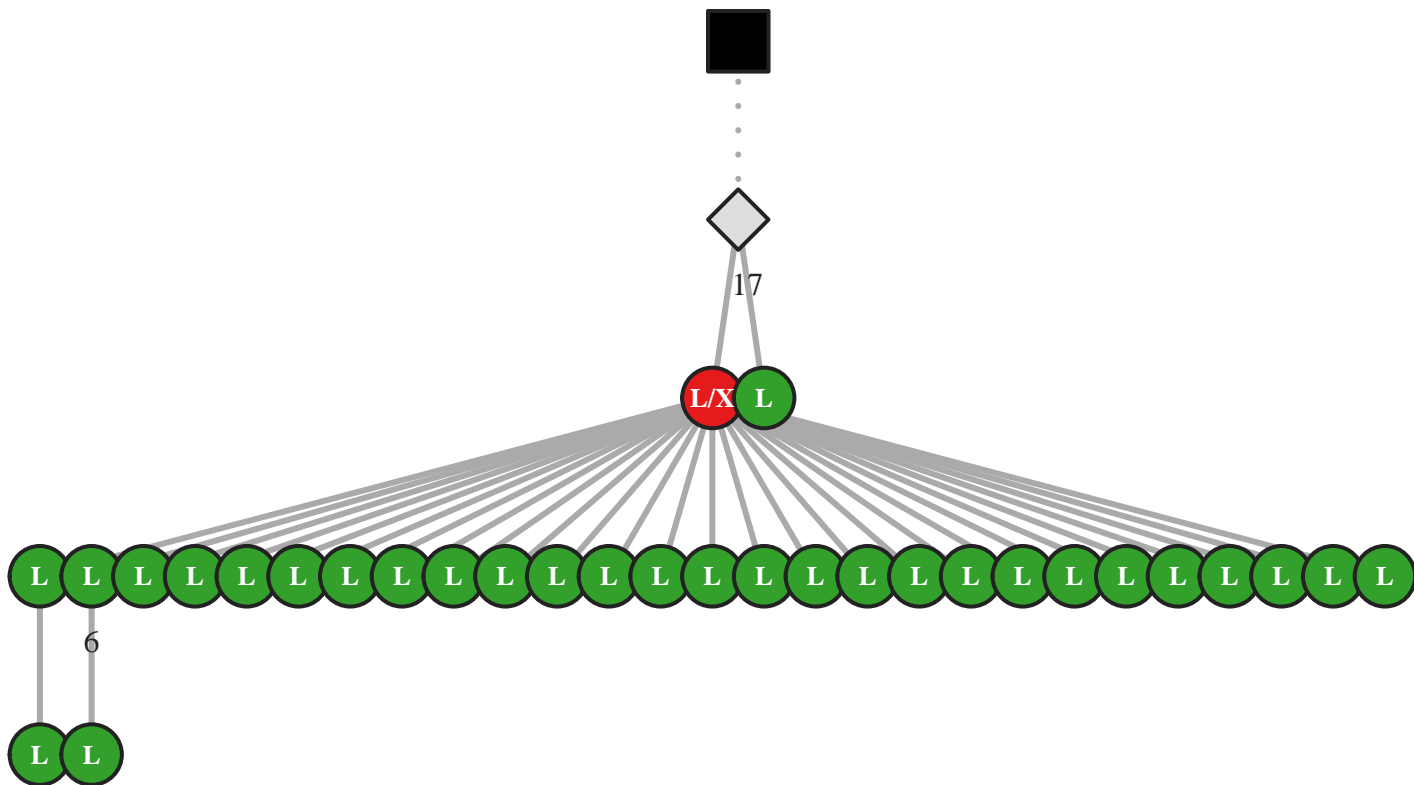
M3 IgG IGHV3-11/J4 36bp (11165)



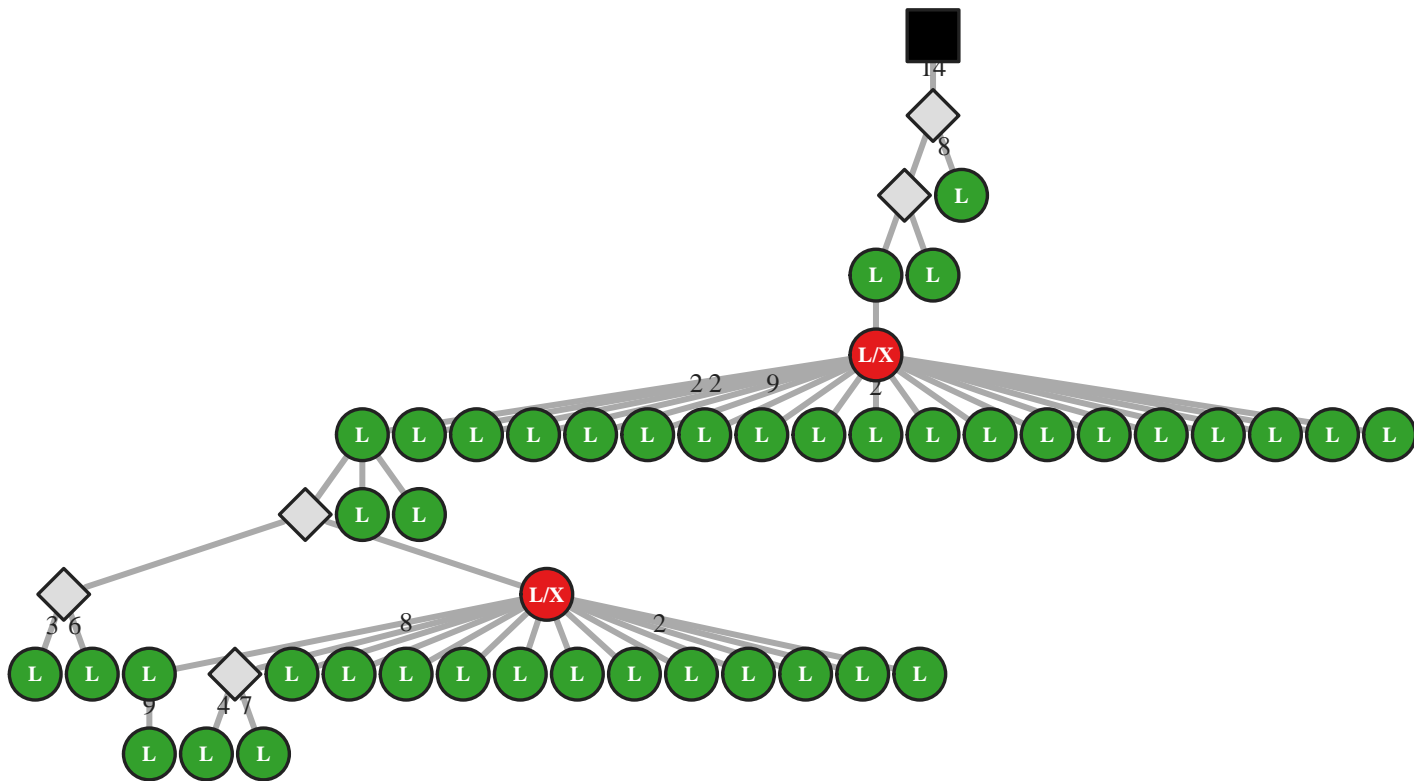
M3 IgA IGHV3-11/J4 45bp (9943)



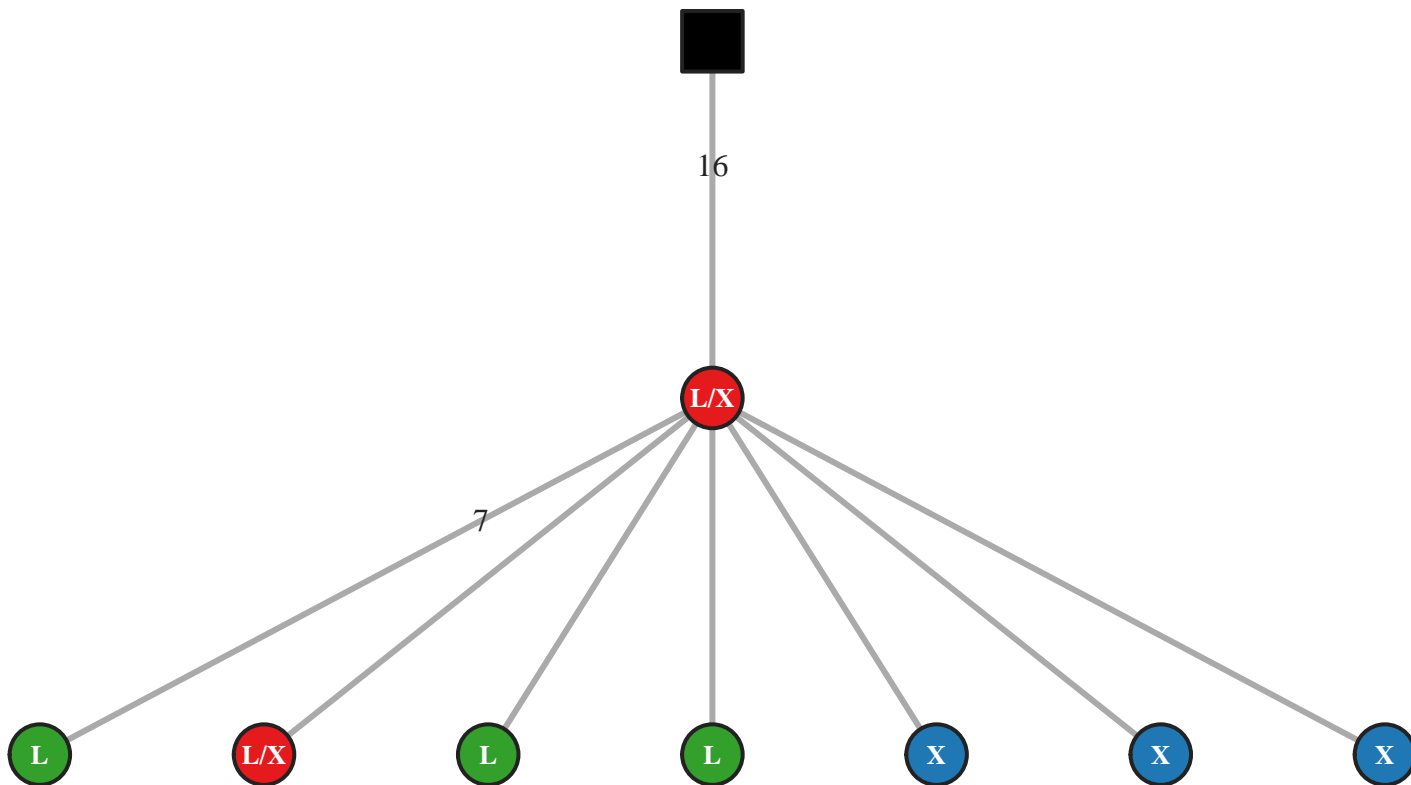
M3 IgG IGHV3-11/J4 48bp (14723)



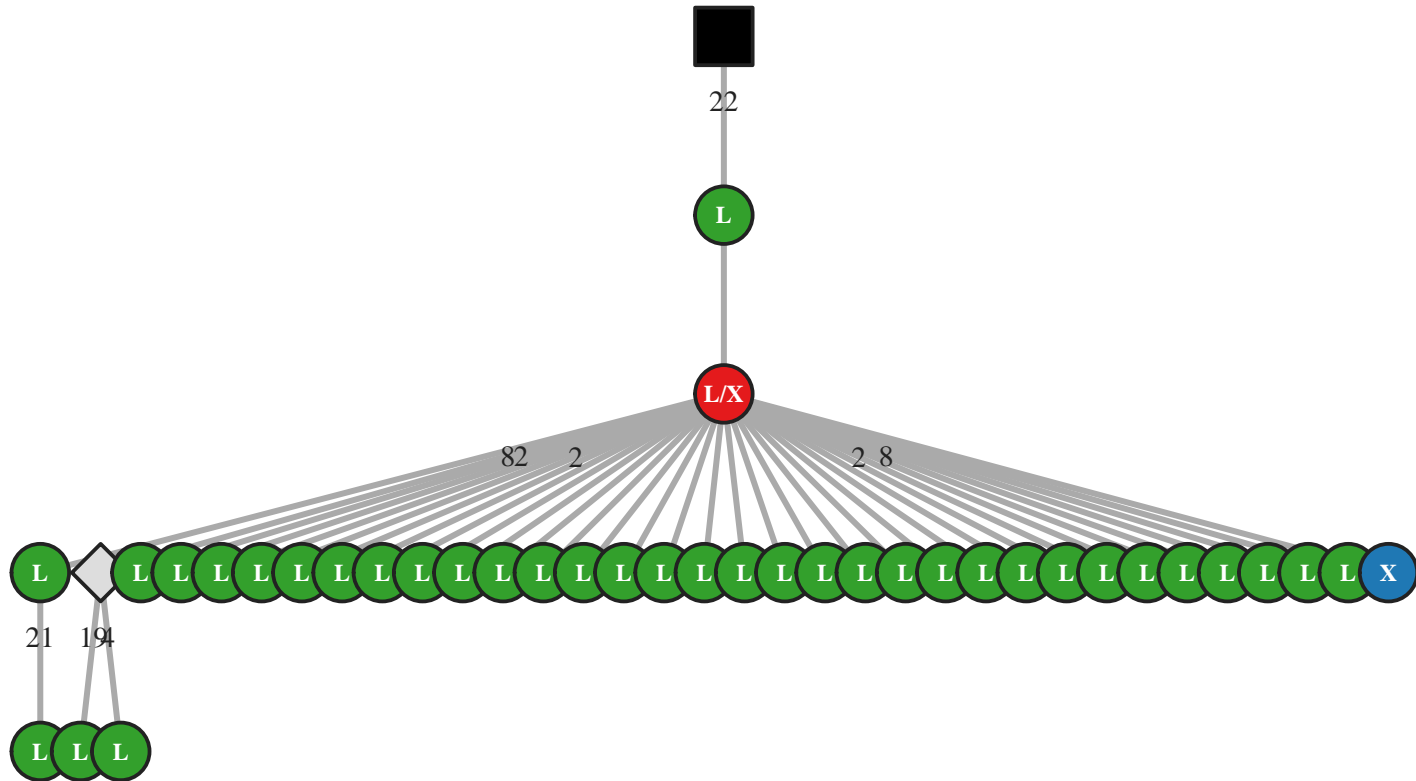
M3 IgG IGHV3-11/J6 63bp (11193)



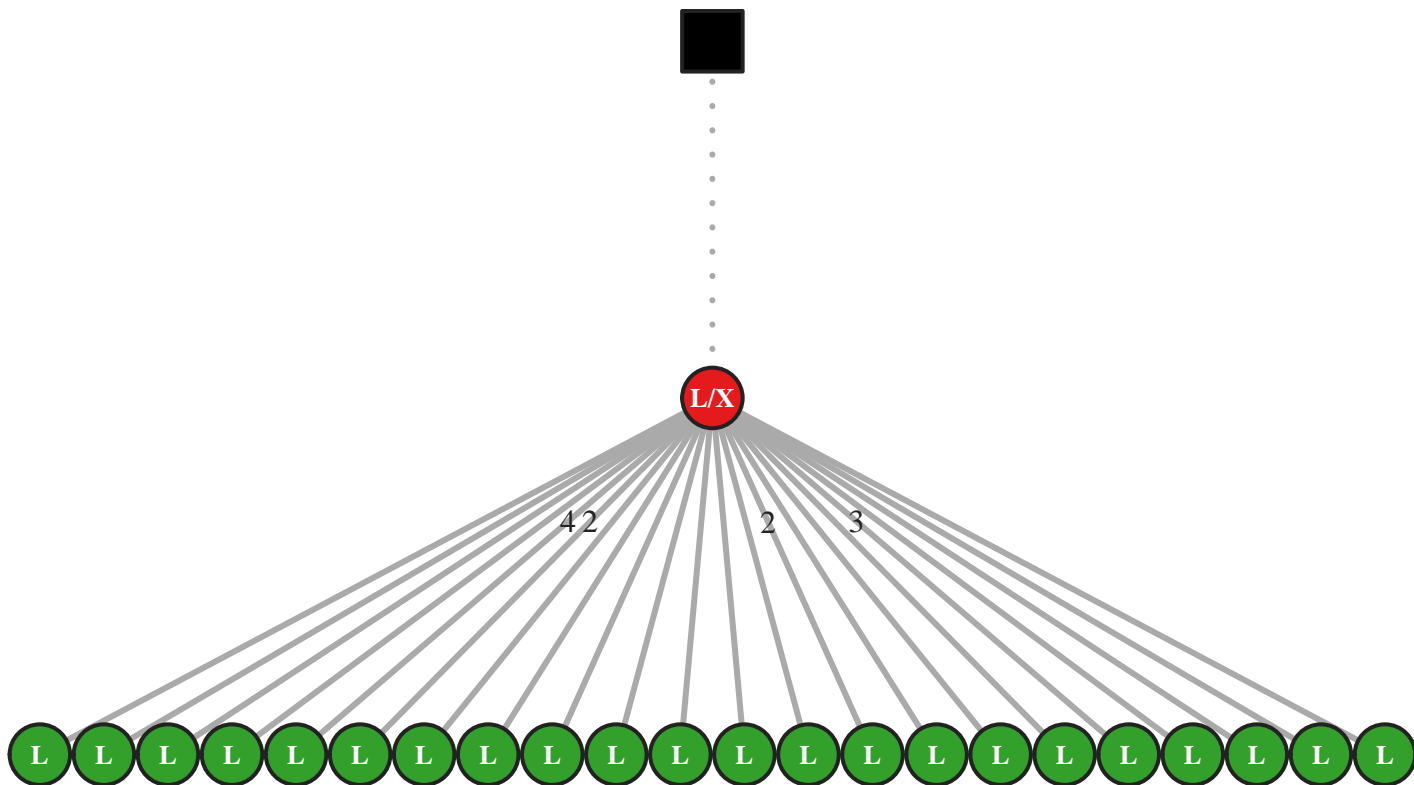
M3 IgG IGHV3-13/J2 57bp (7141)



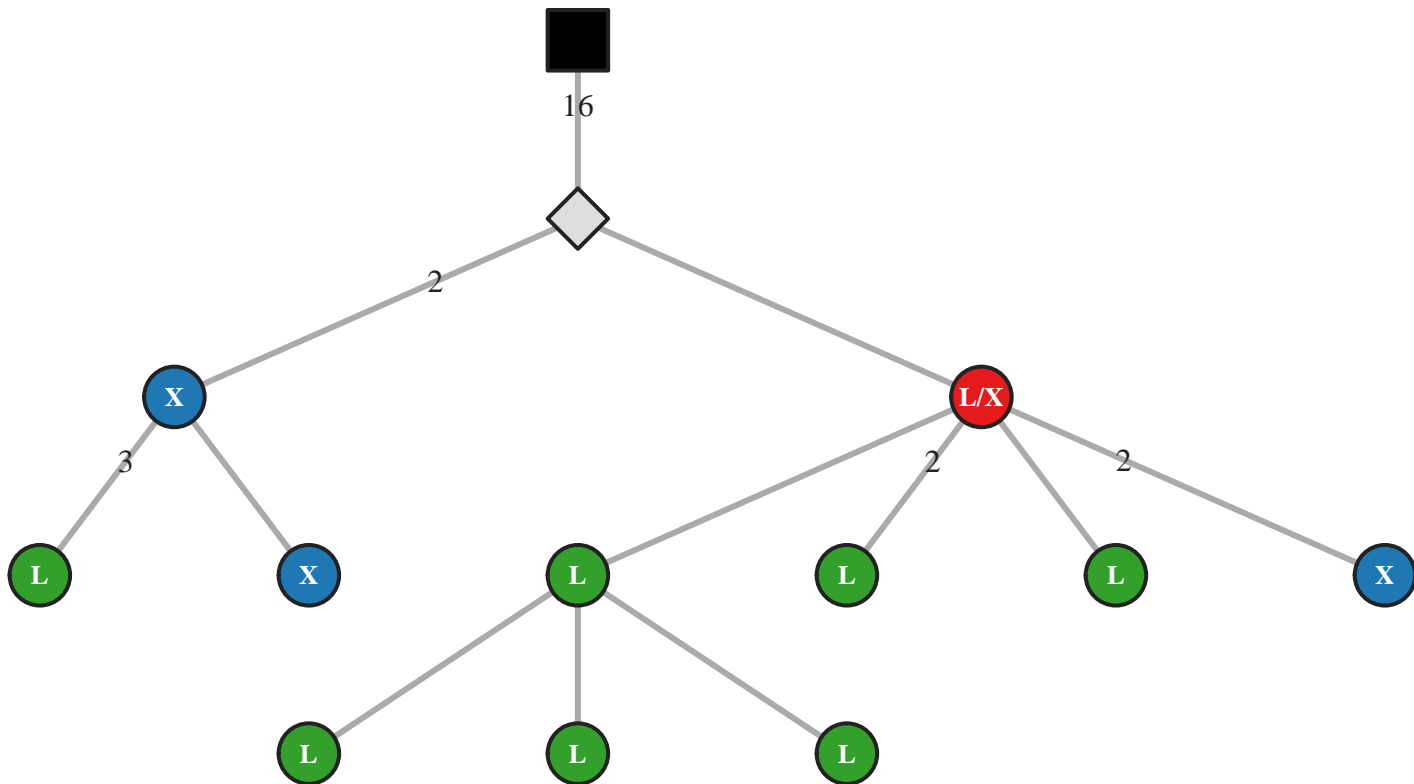
M3 IgG IGHV3-13/J4 39bp (7146)



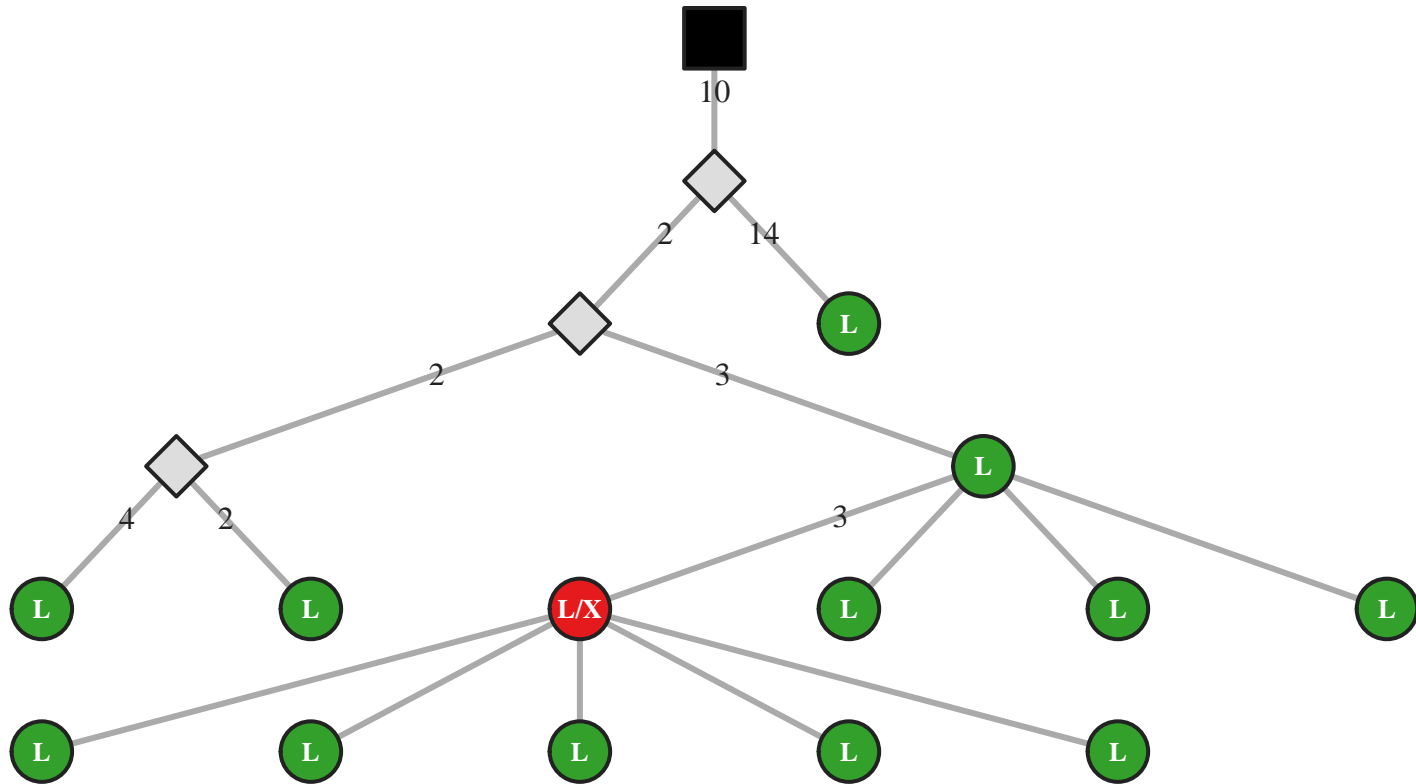
M3 IgG IGHV3-15/J6 39bp (3168)



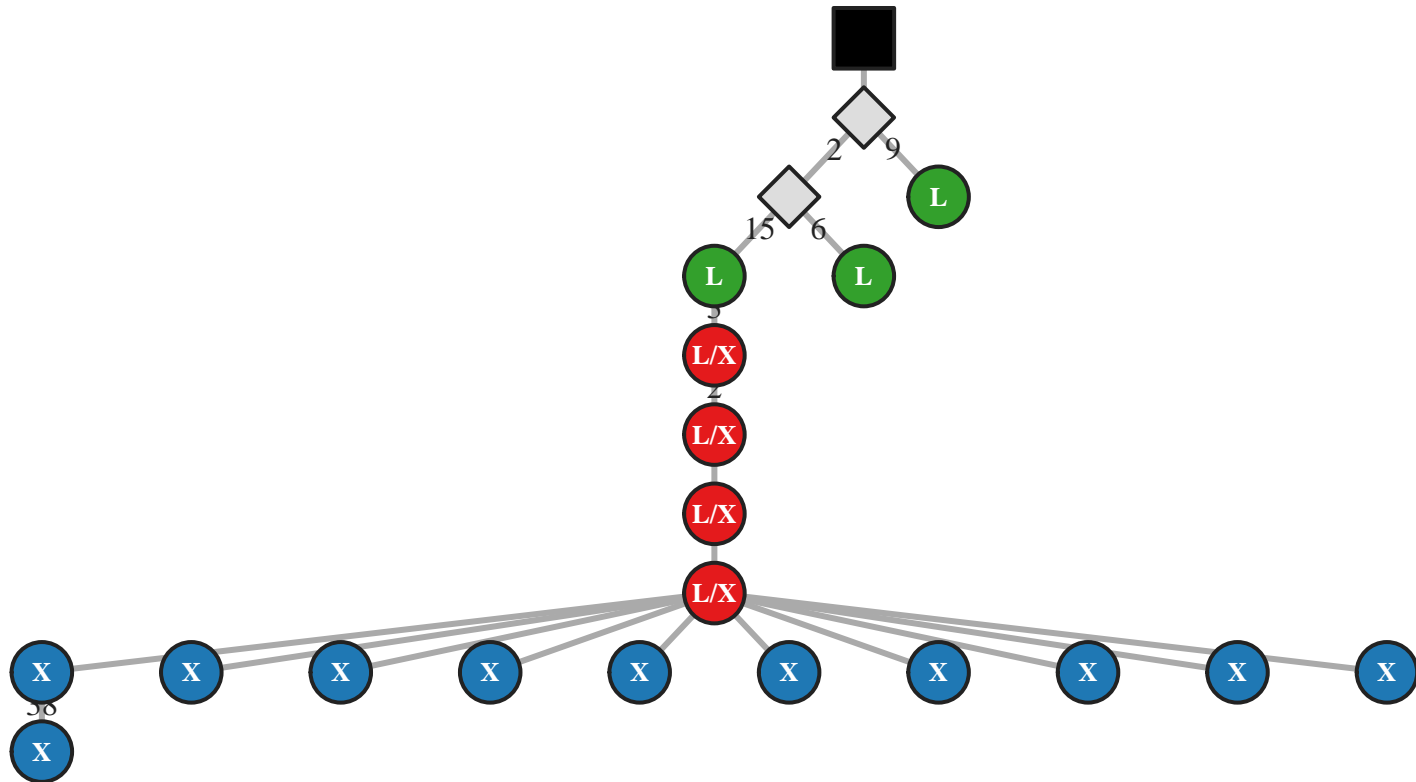
M3 IgG IGHV3-21/J4 48bp (11250)



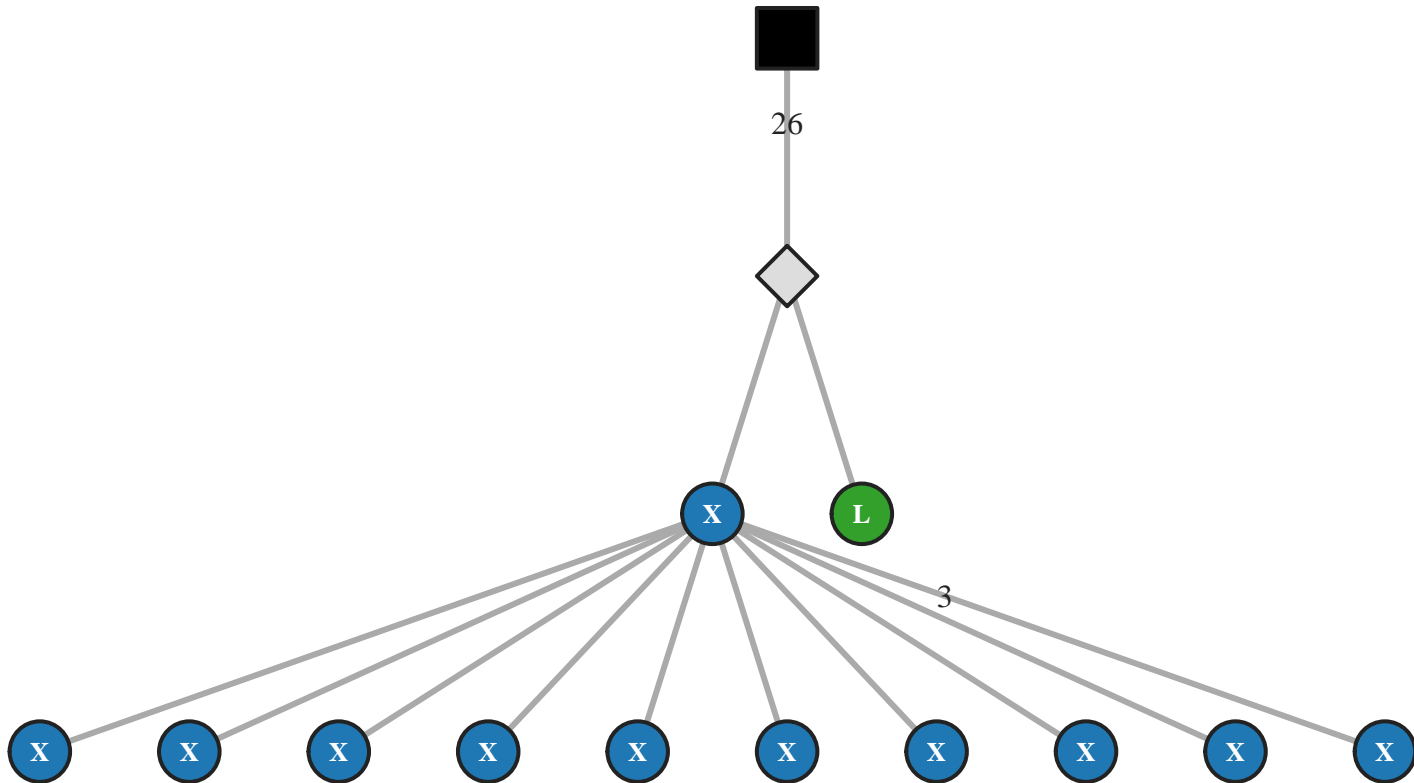
M3 IgA IGHV3-21/J4 51bp (9994)



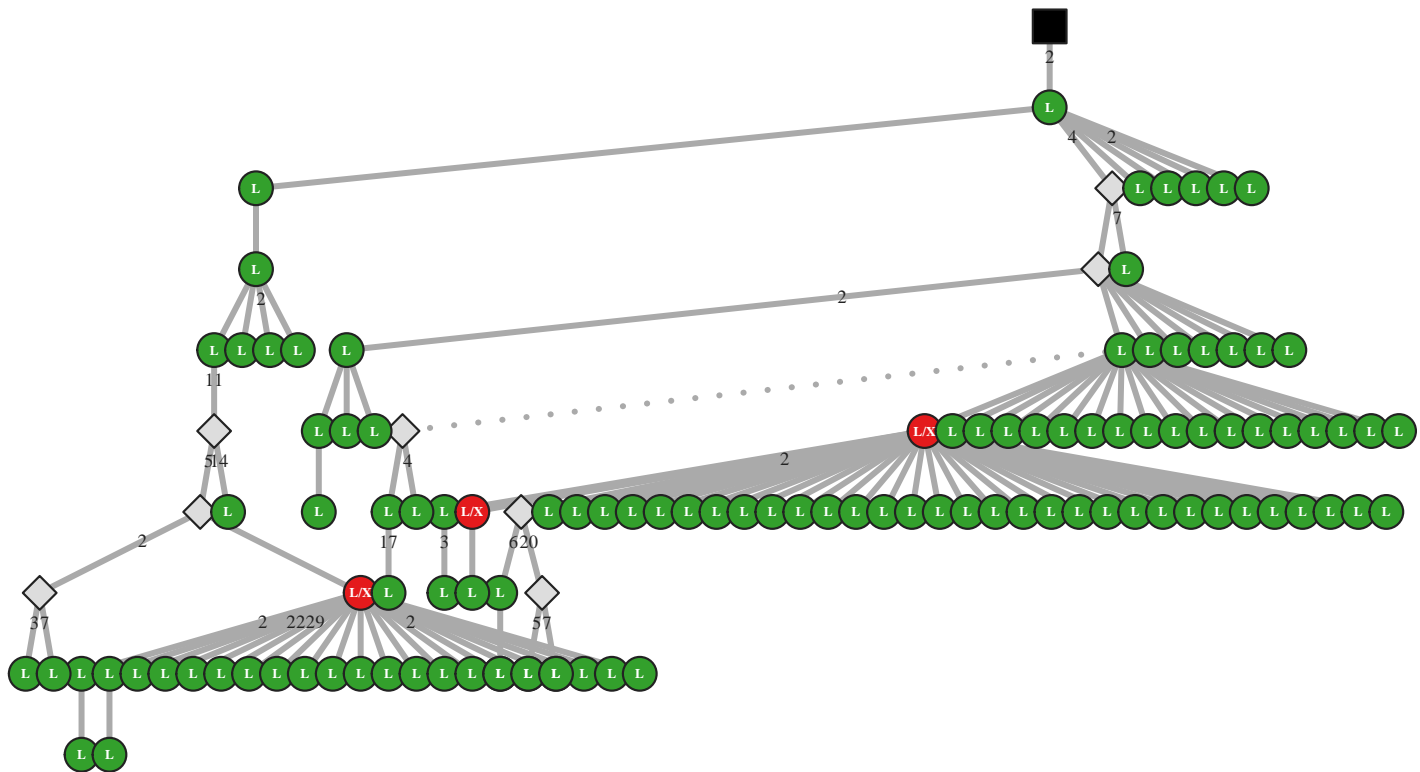
M3 IgG IGHV3-21/J6 63bp (3202)



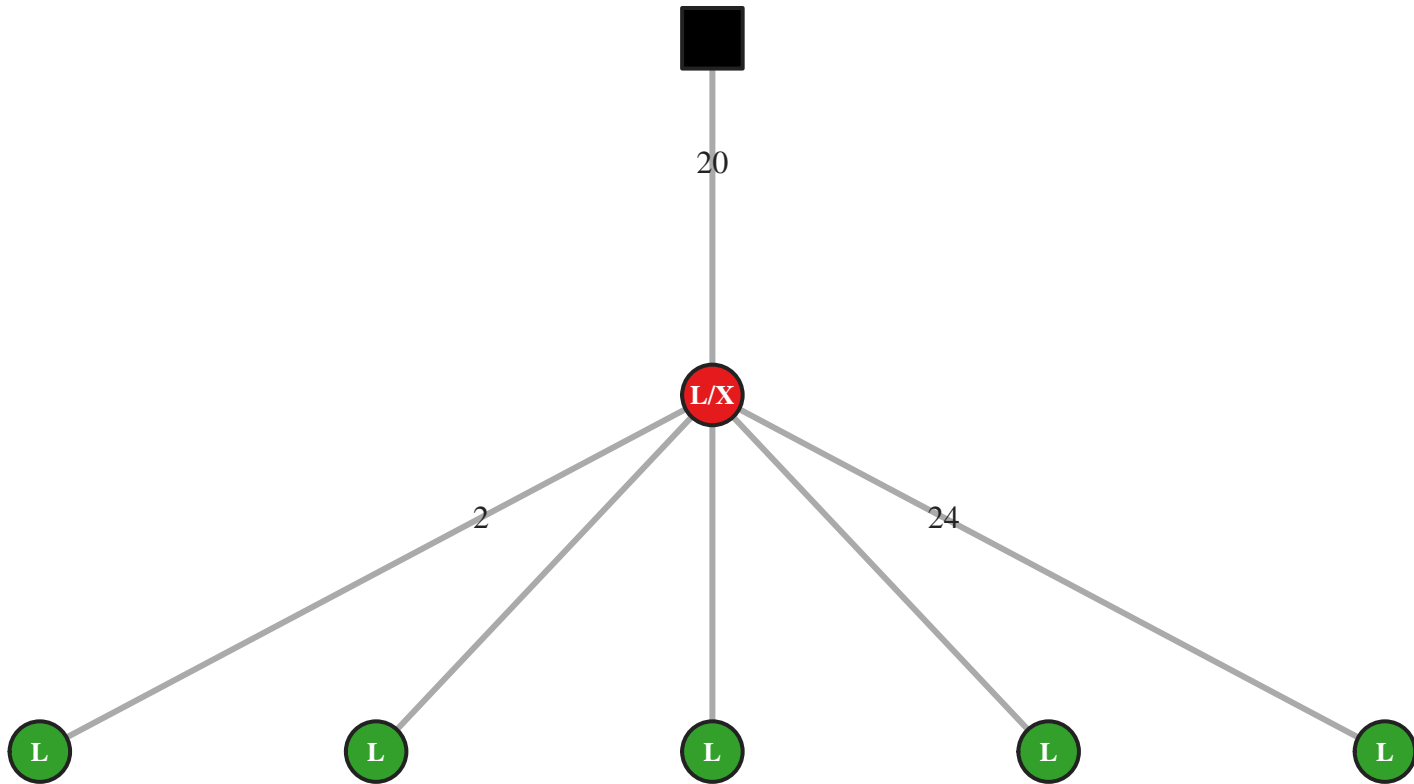
M3 IgG IGHV3-23/J3 54bp (7217)



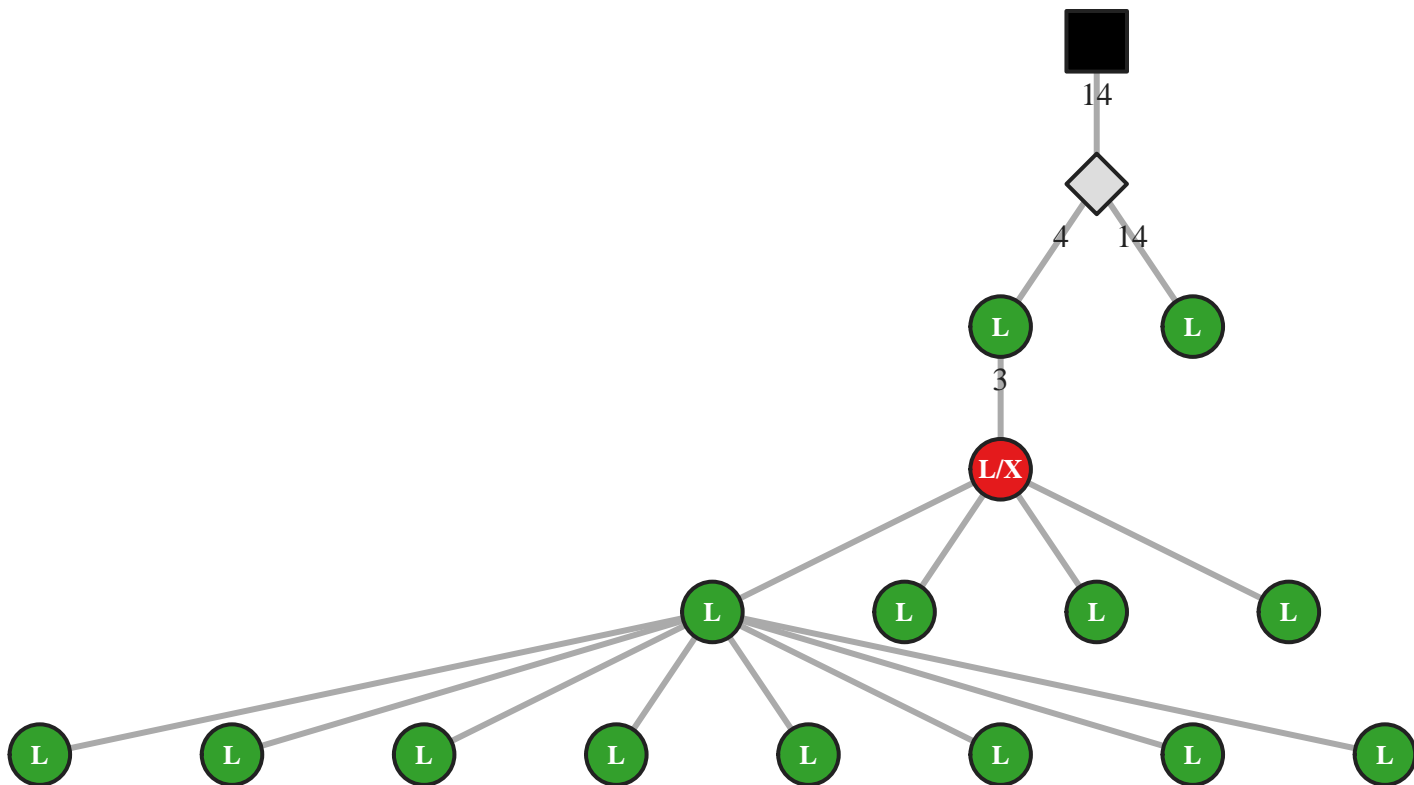
M3 IgG IGHV3-23/J4 42bp (3238)



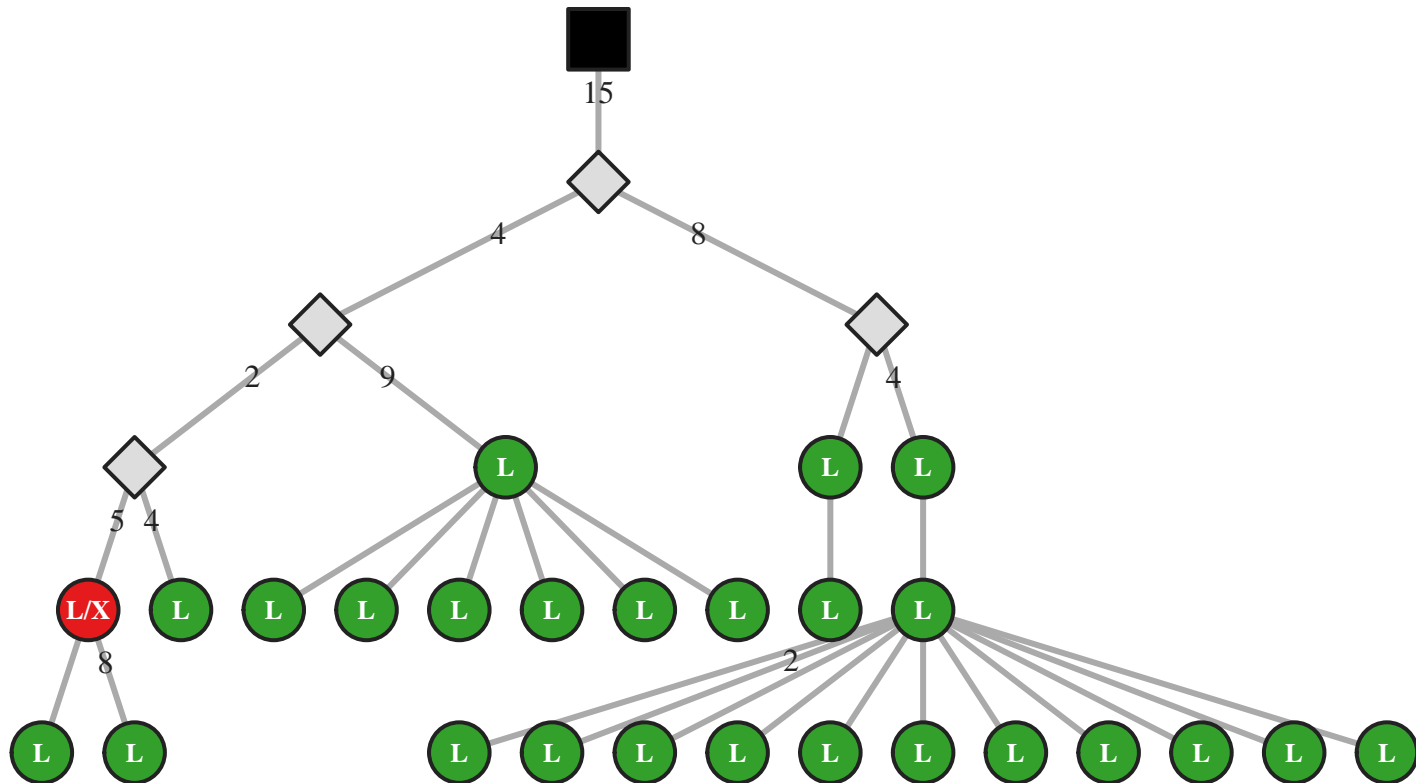
M3 IgG IGHV3-23/J4 48bp (11365)



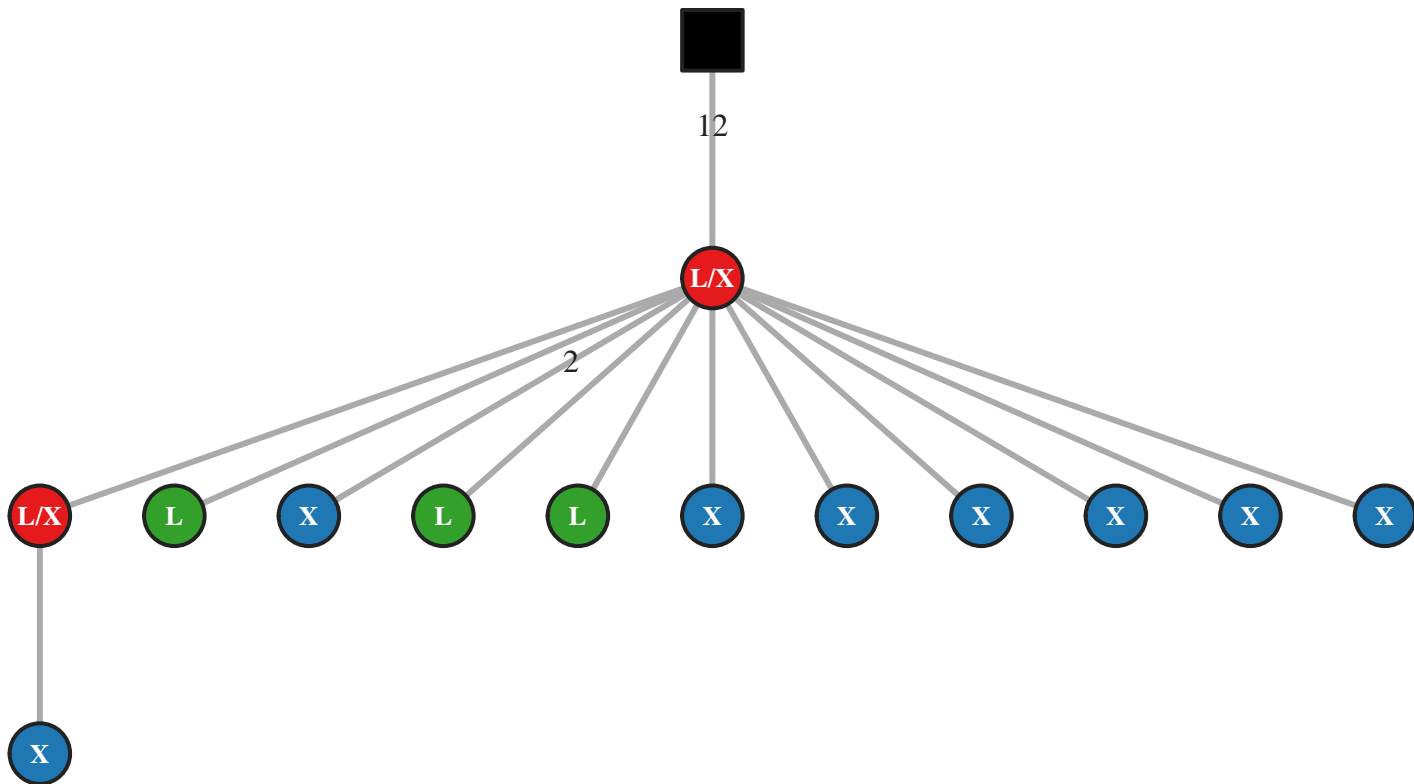
M3 IgG IGHV3-23/J4 48bp (11367)



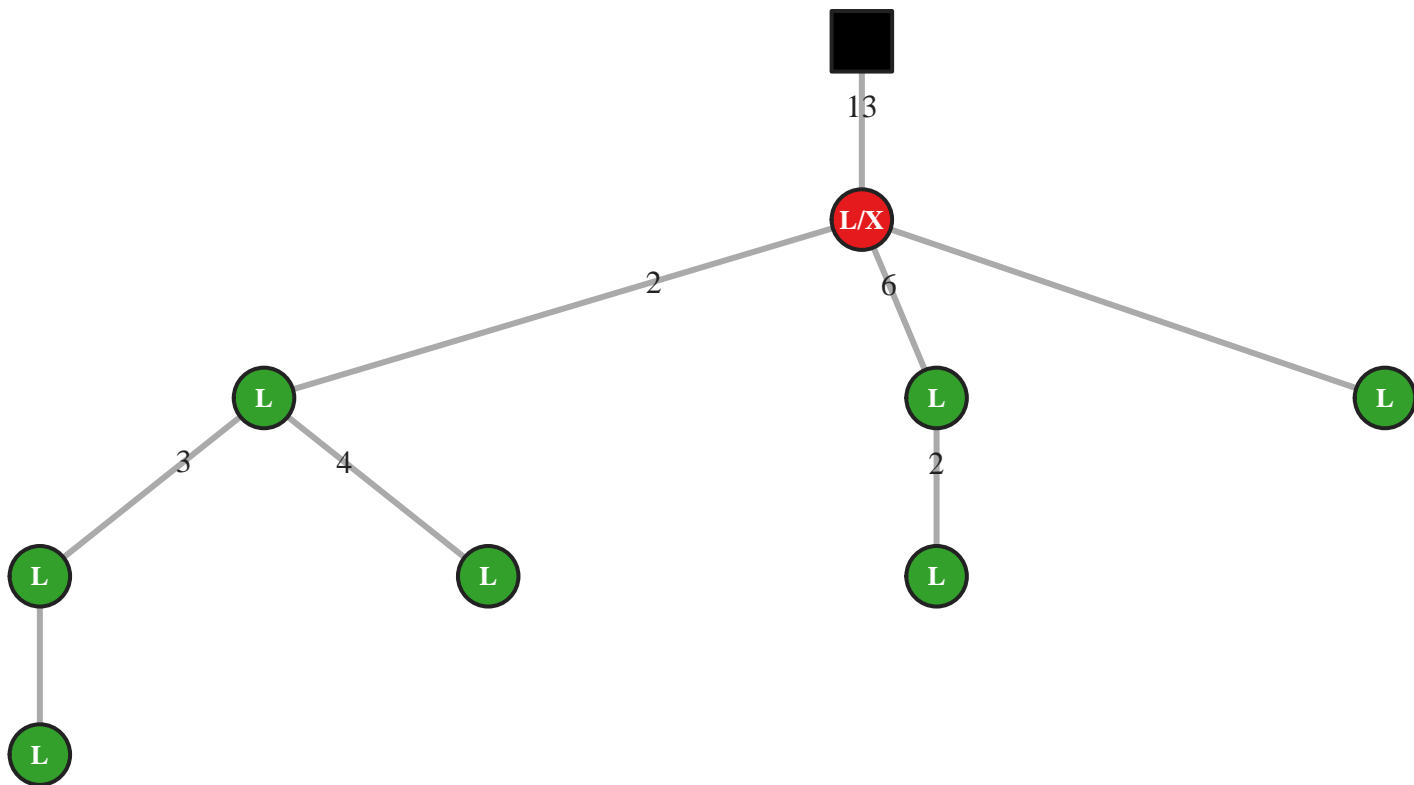
M3 IgG IGHV3-23/J4 51bp (3255)



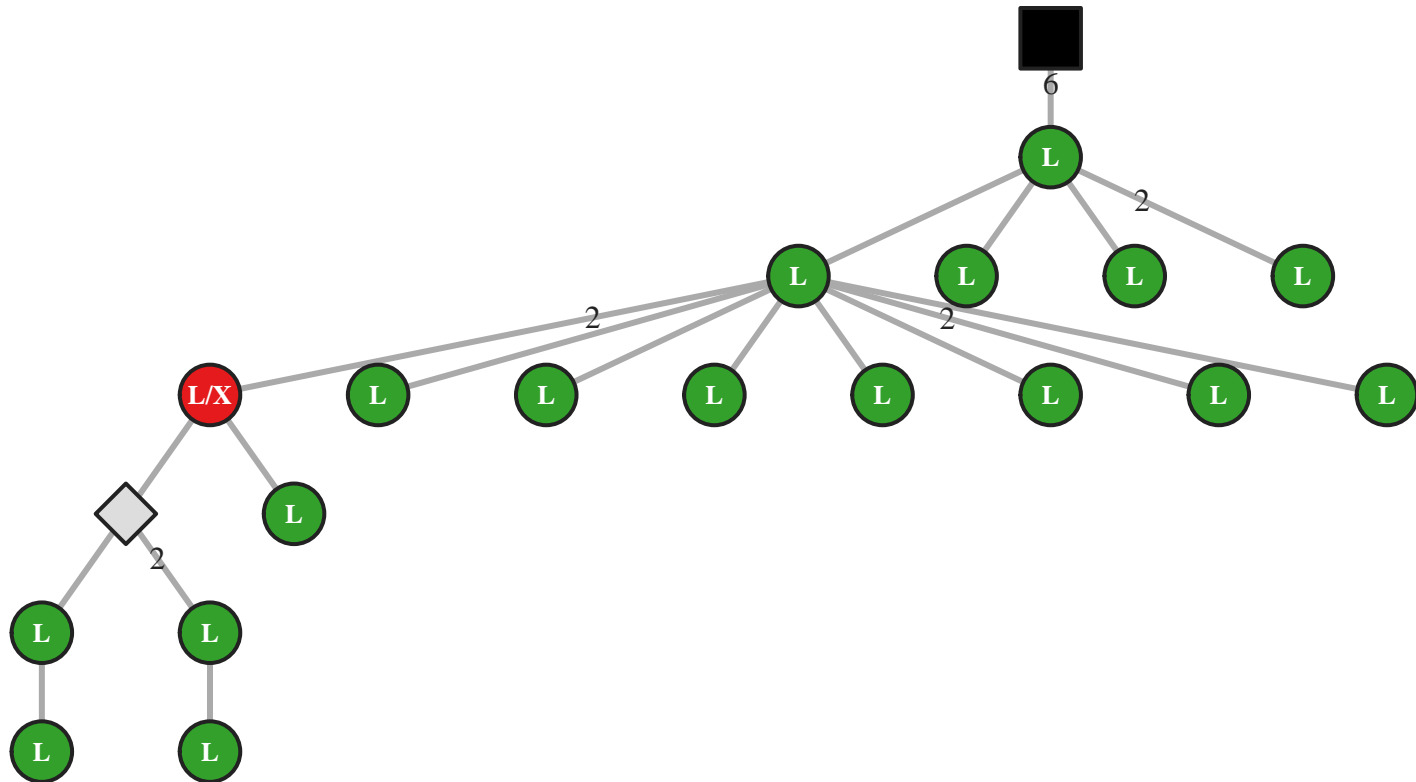
M3 IgG IGHV3-23/J4 66bp (14807)



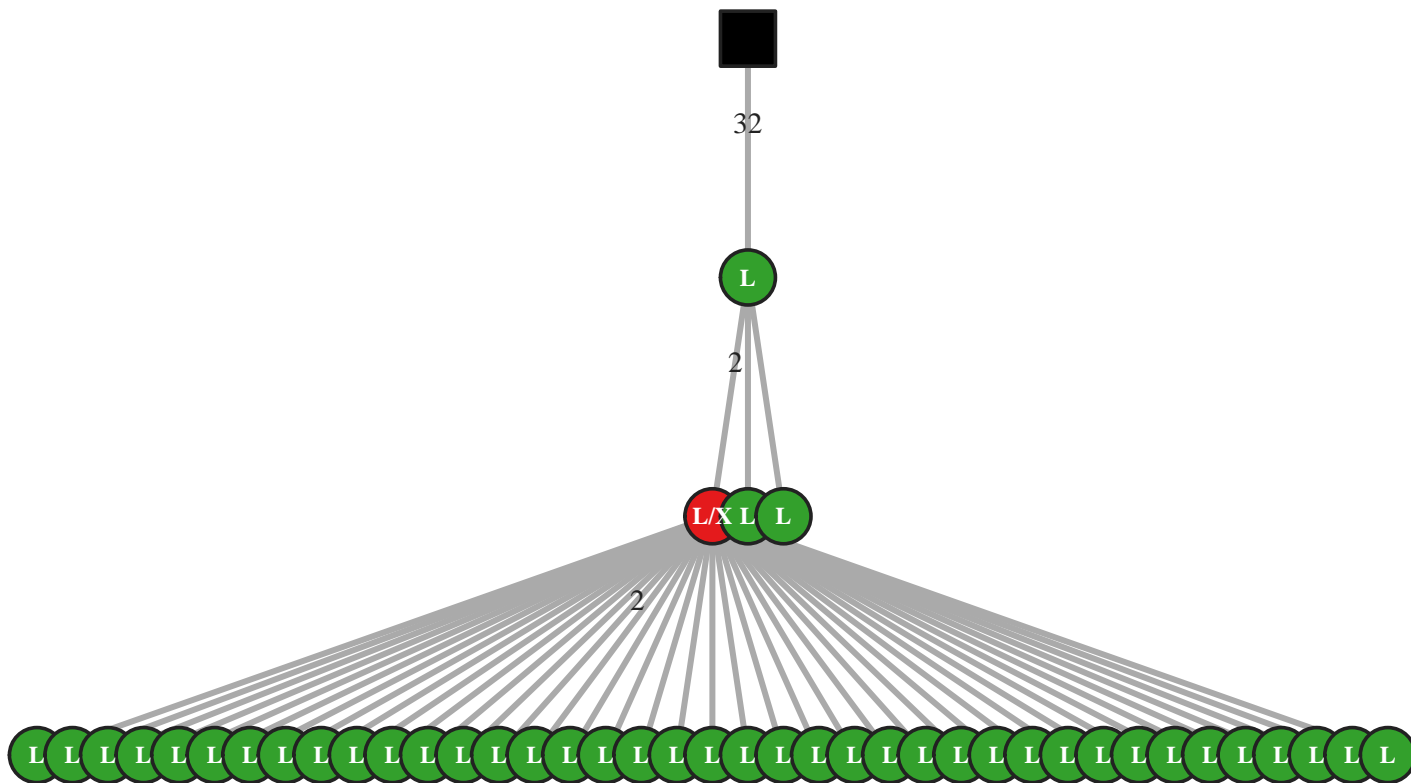
M3 IgG IGHV3-23/J5 57bp (11433)



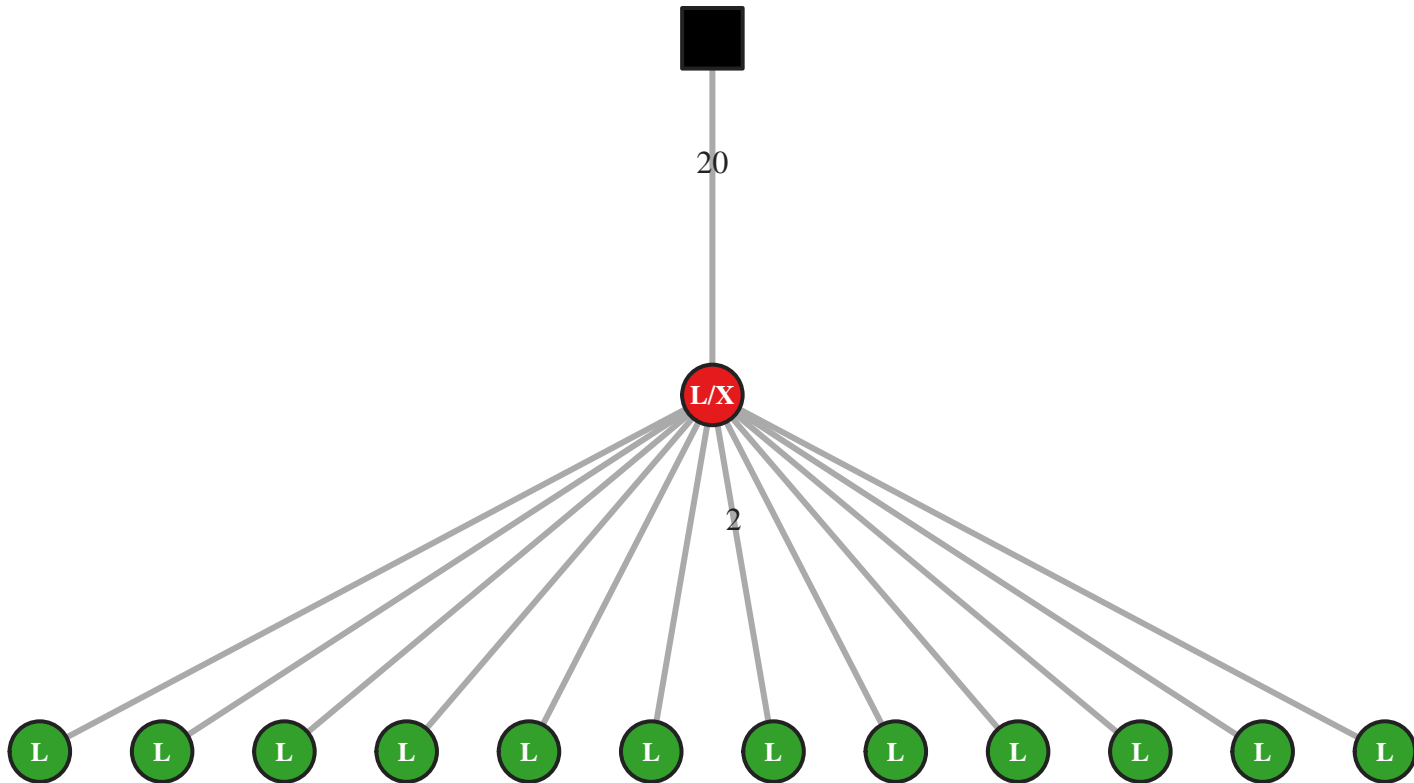
M3 IgG IGHV3-23/J5 60bp (3273)



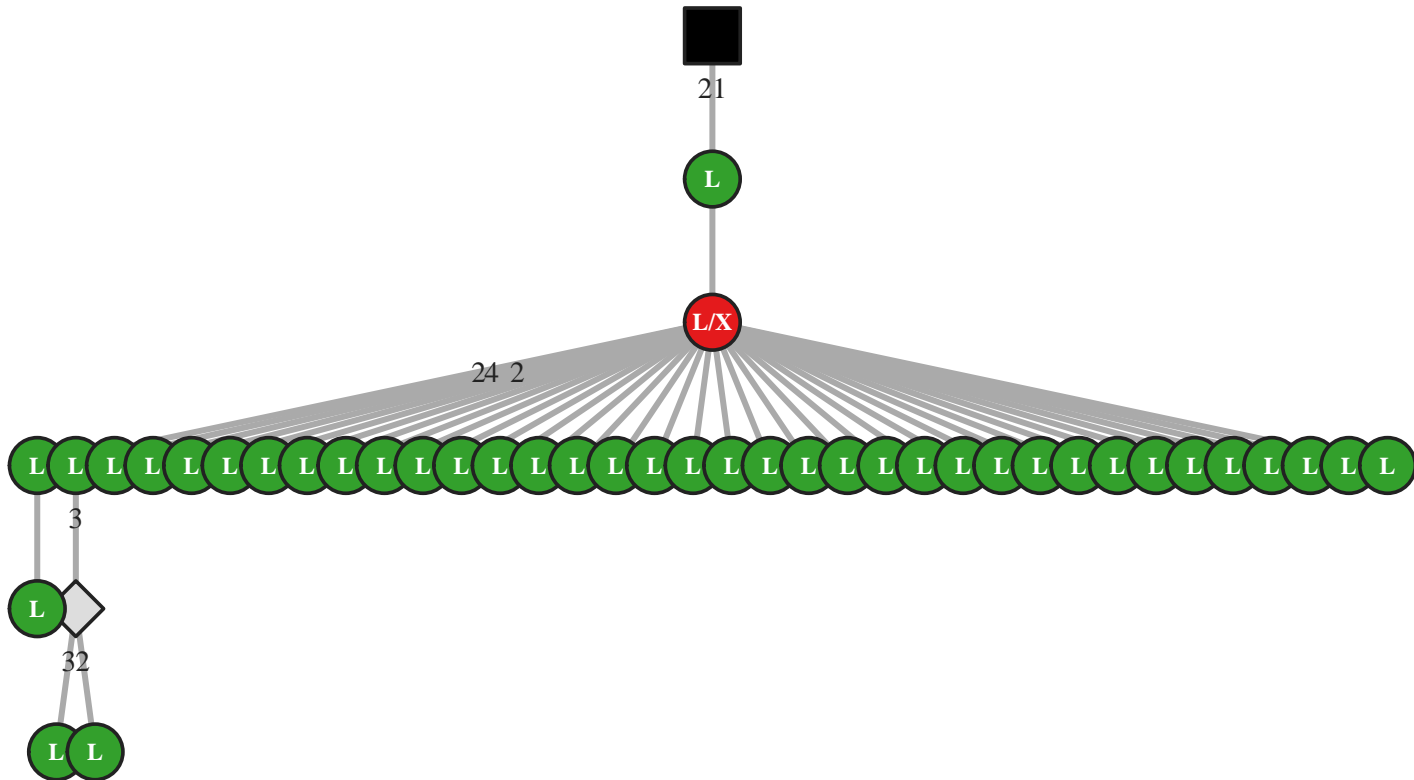
M3 IgG IGHV3-30/J1 42bp (7292)



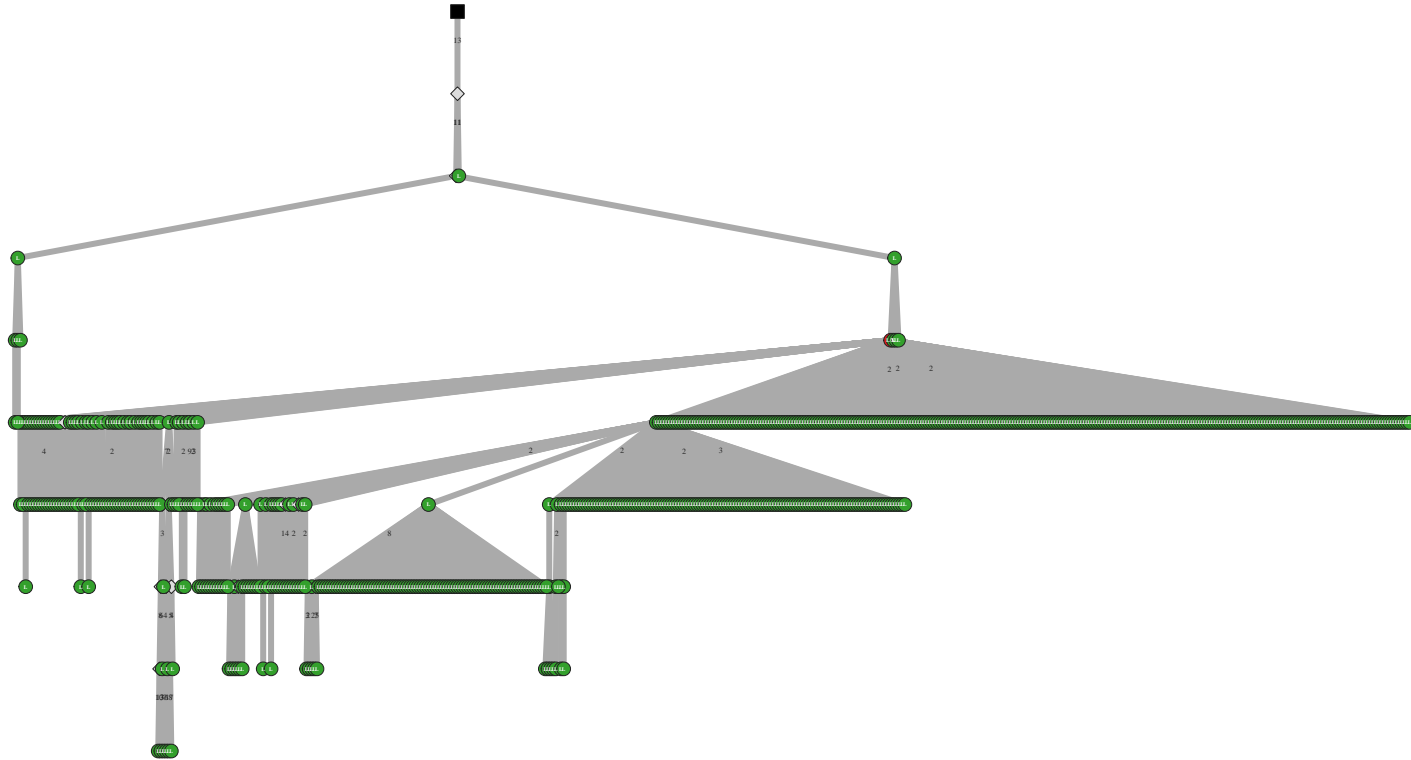
M3 IgG IGHV3-30/J4 45bp (14890)



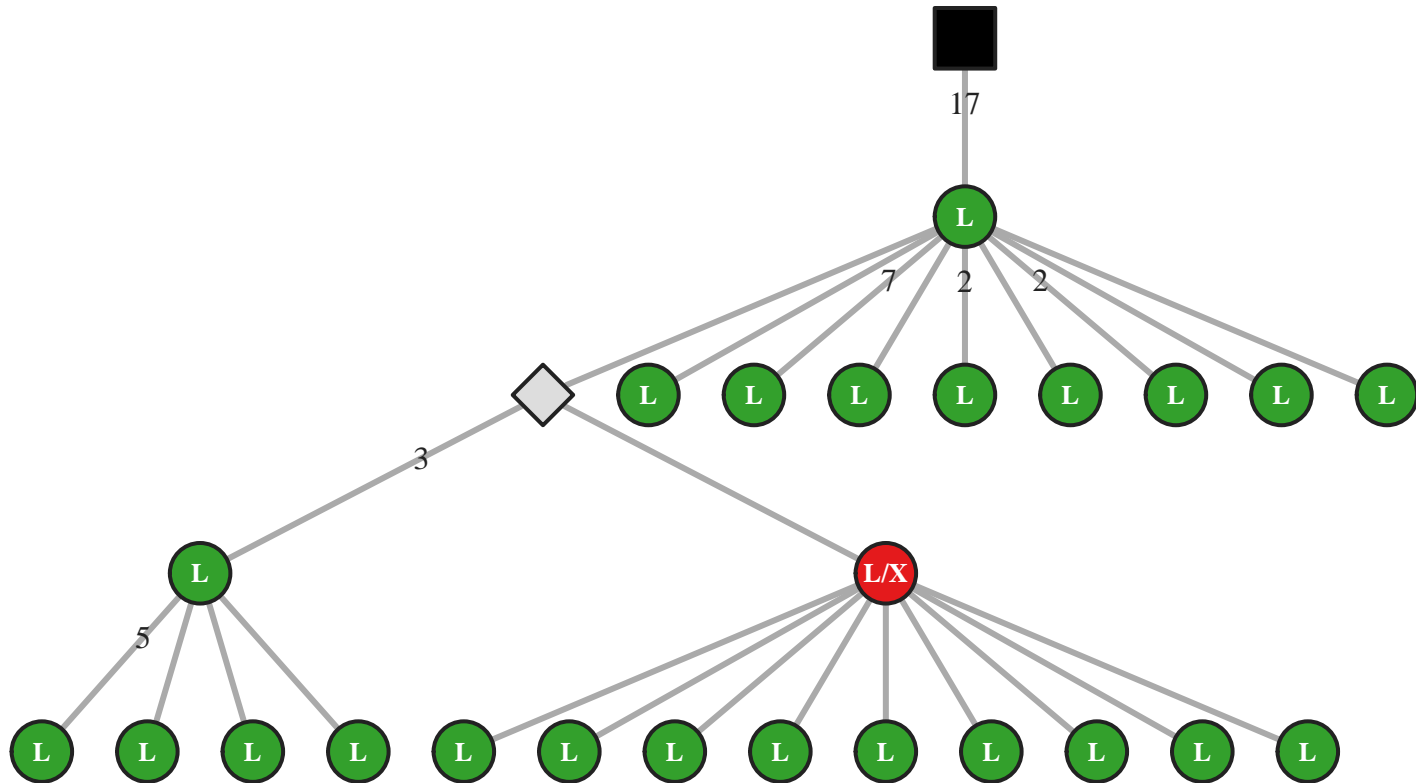
M3 IgG IGHV3-30/J4 48bp (3314)



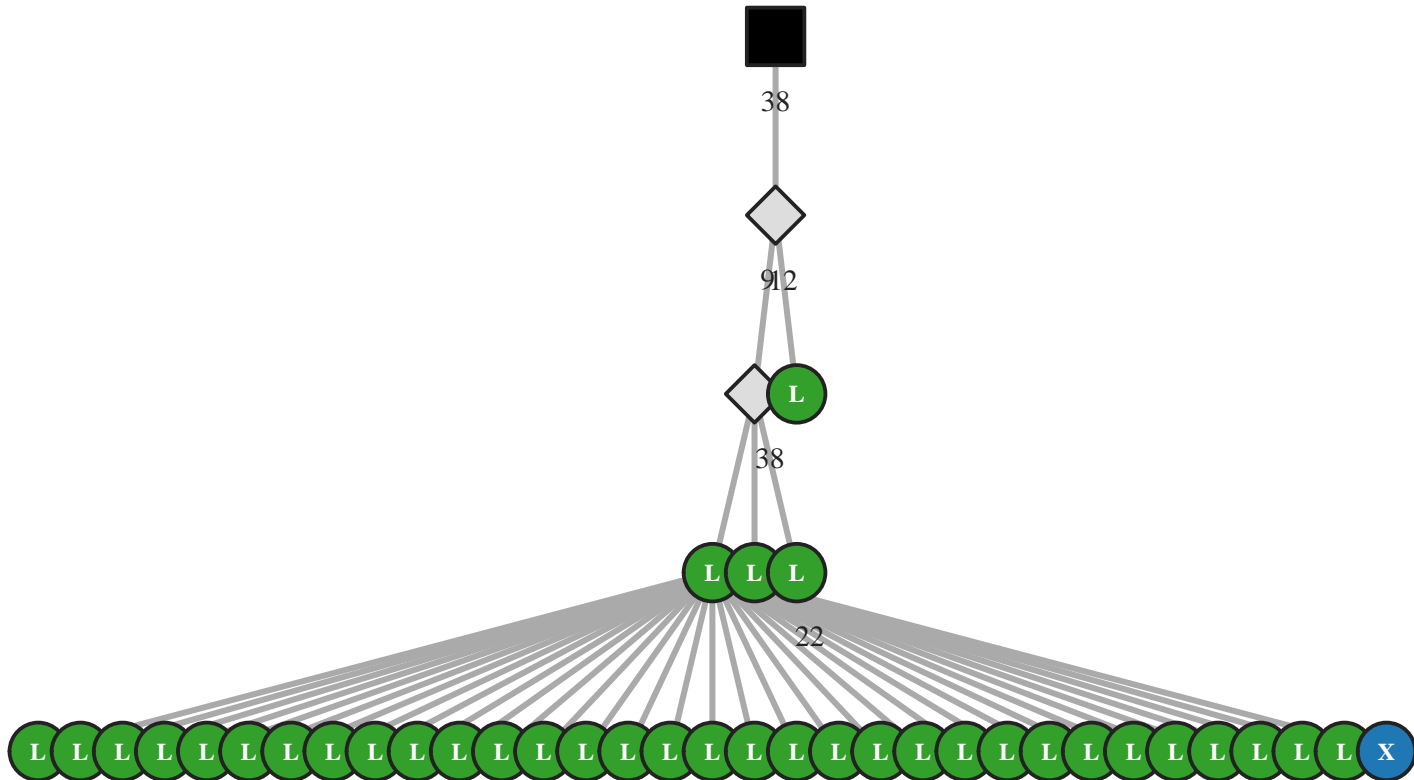
M3 IgG IGHV3-30/J4 51bp (11504)



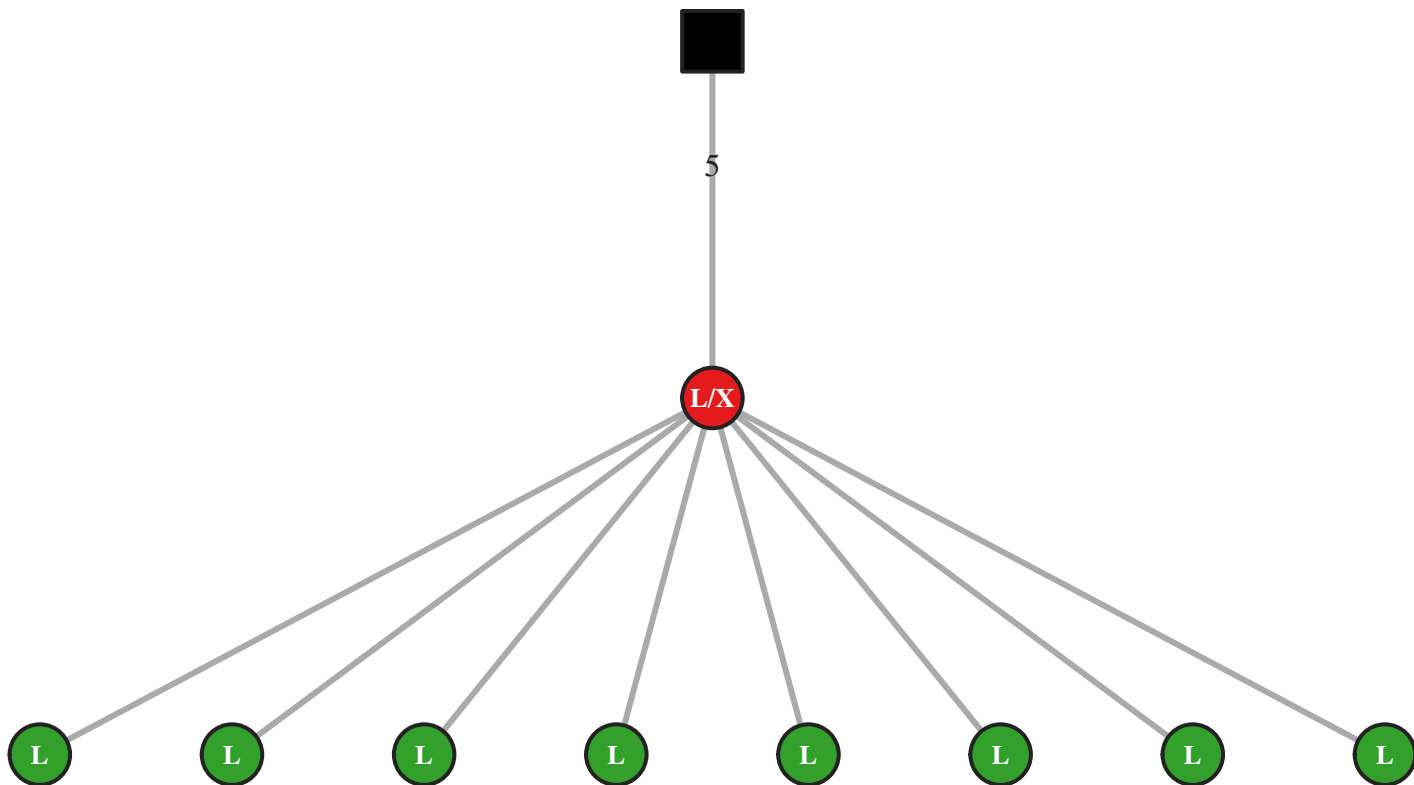
M3 IgA IGHV3-30/J4 54bp (10140)



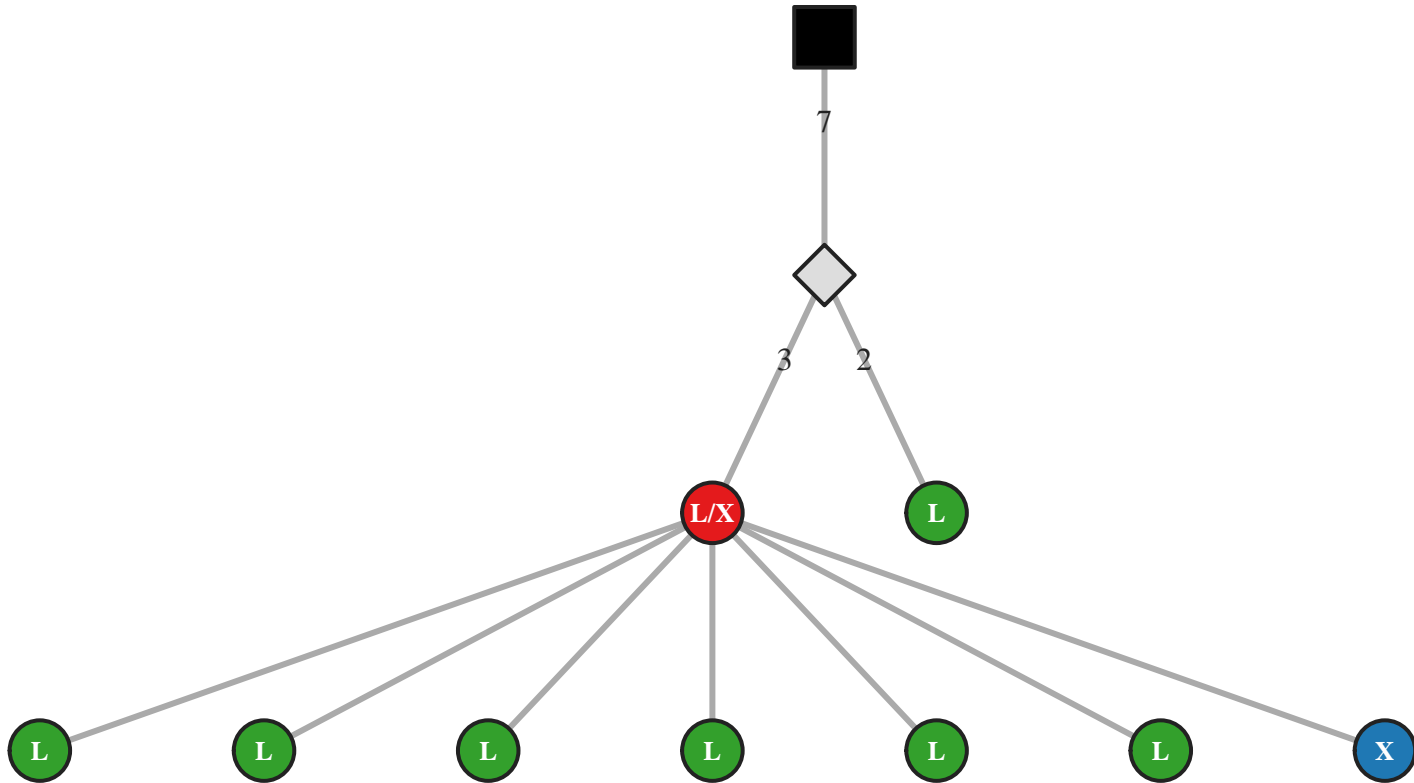
M3 IgG IGHV3-30/J5 54bp (7315)



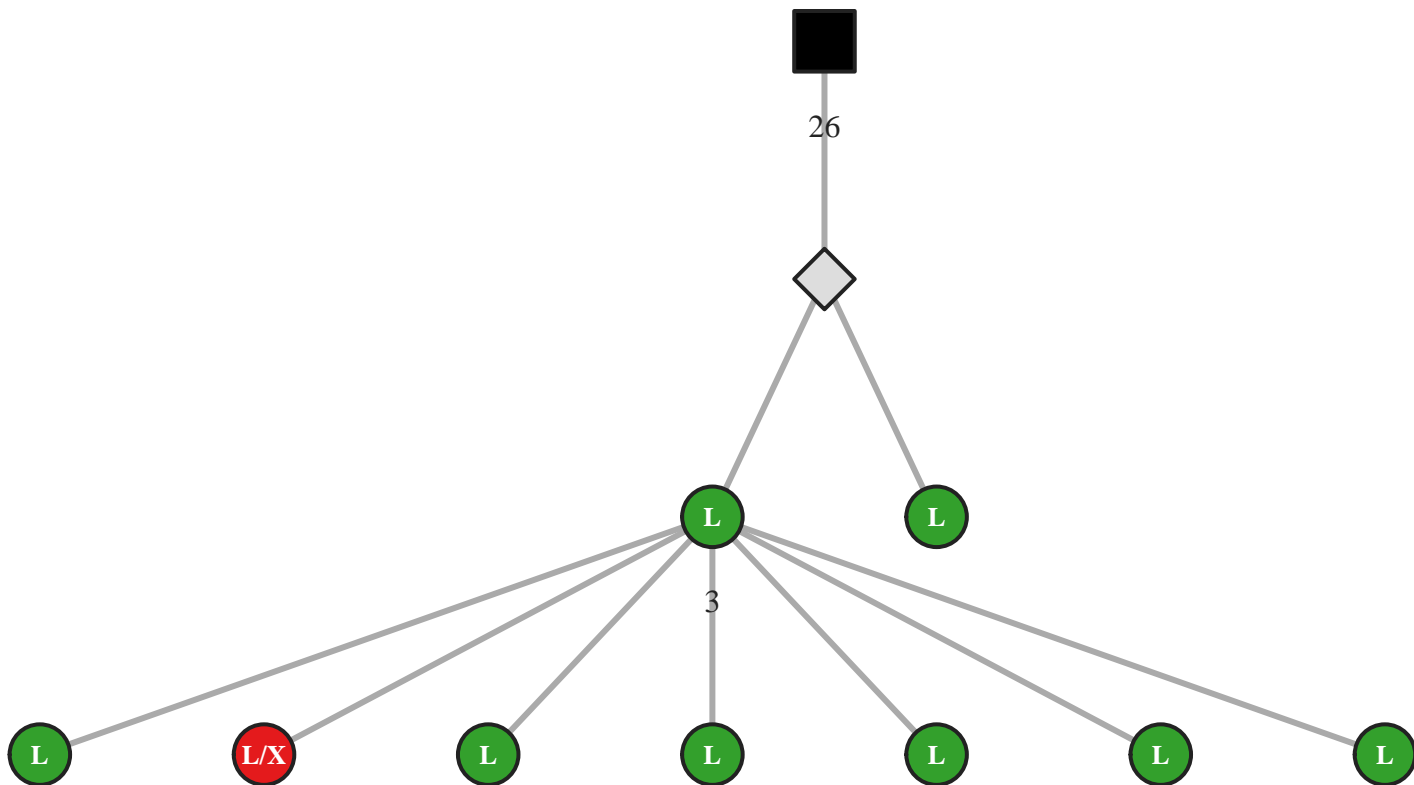
M3 IgG IGHV3-30/J6 48bp (11574)



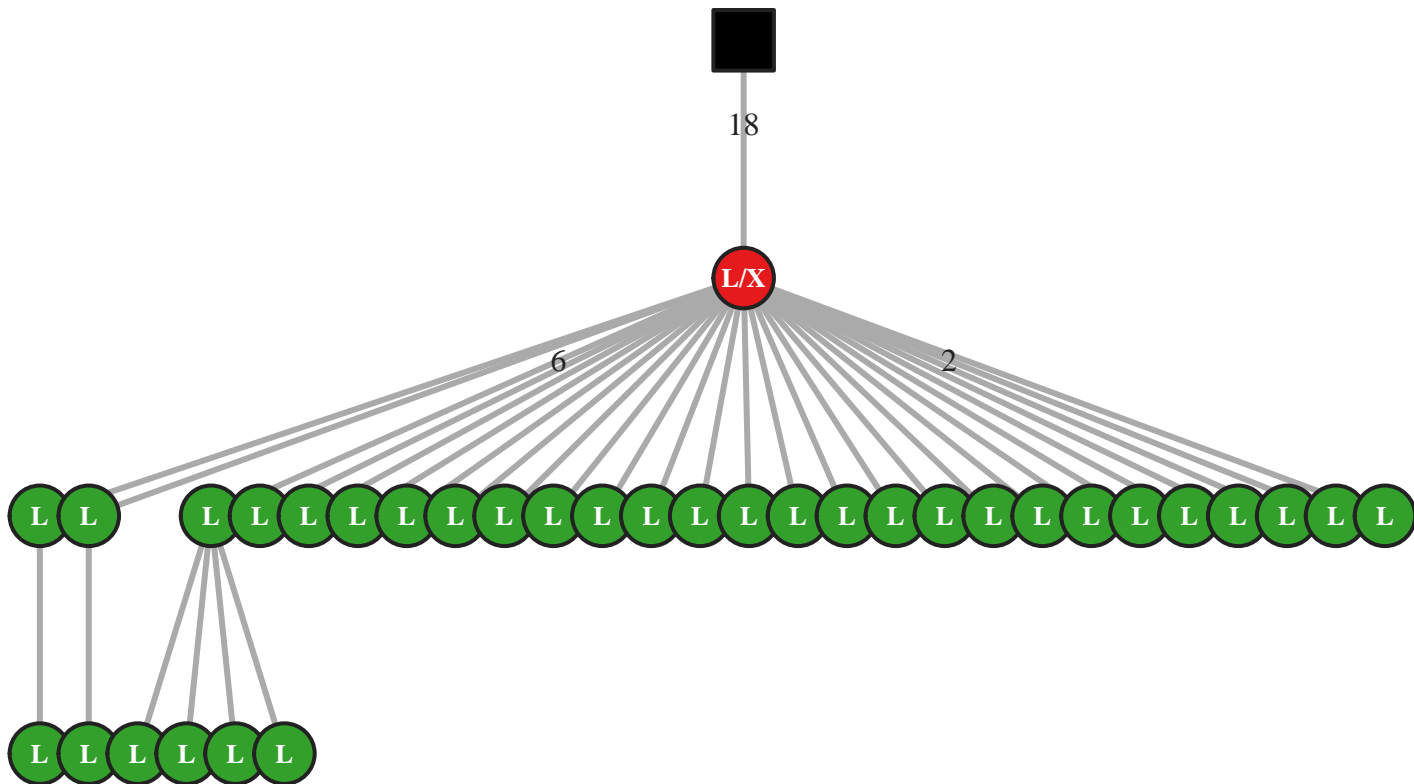
M3 IgG IGHV3-30/J6 48bp (11575)



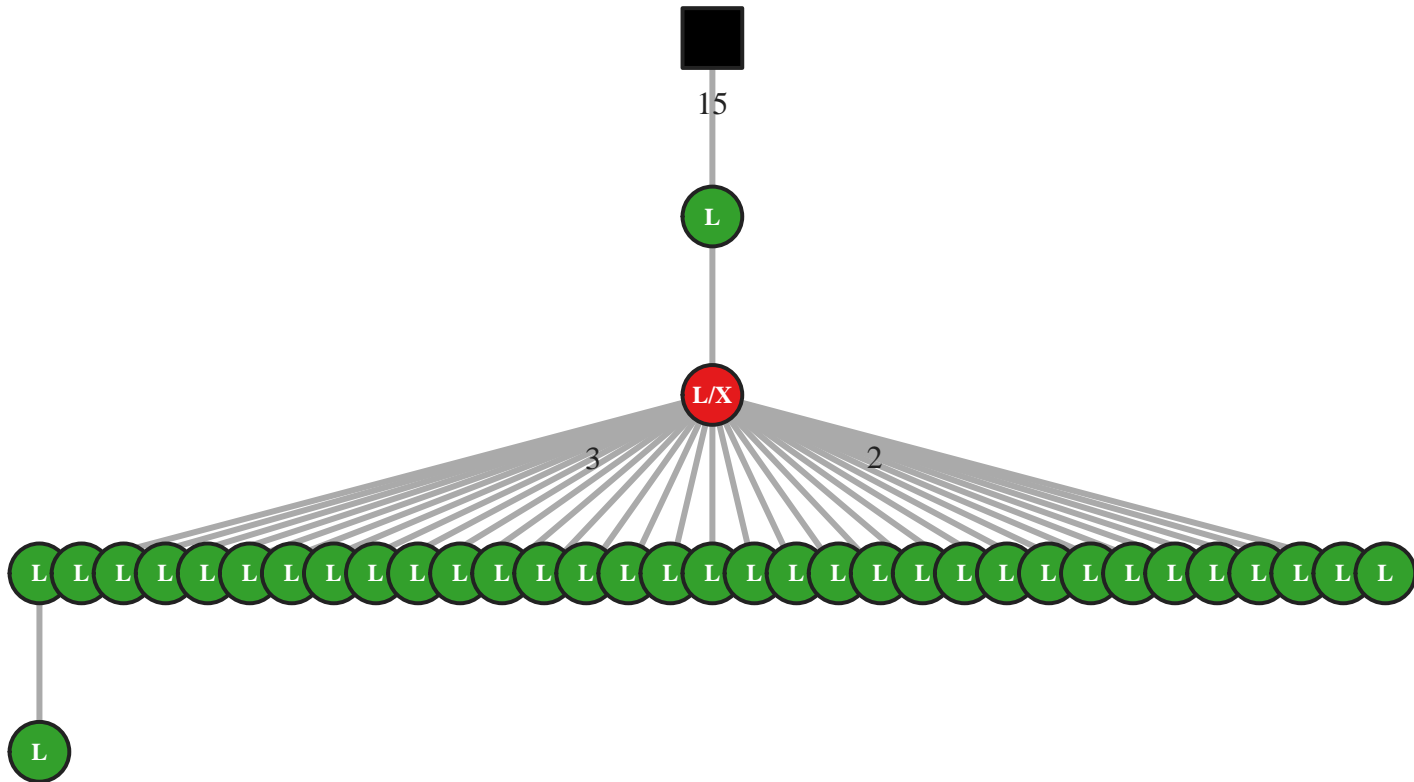
M3 IgG IGHV3-30/J6 54bp (7324)



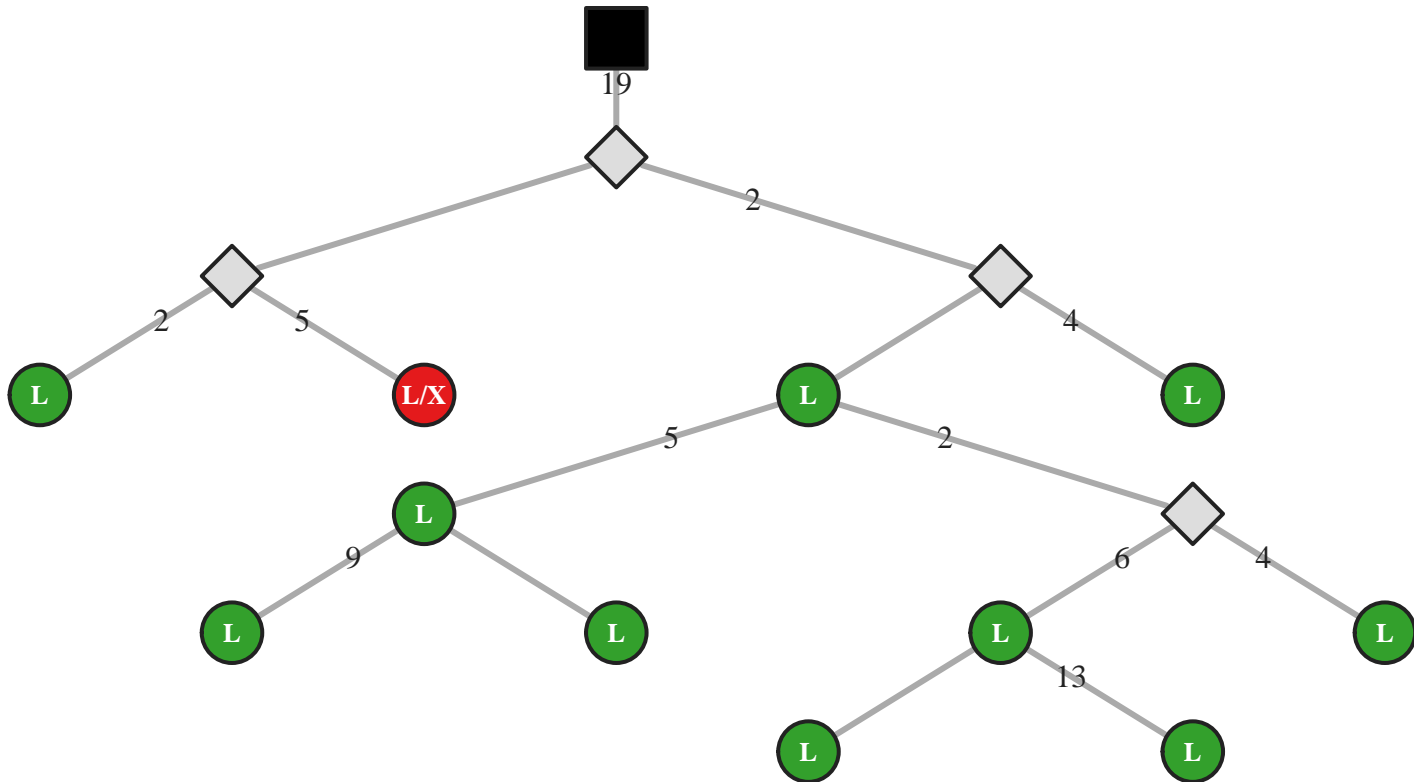
M3 IgG IGHV3-30/J6 69bp (11606)



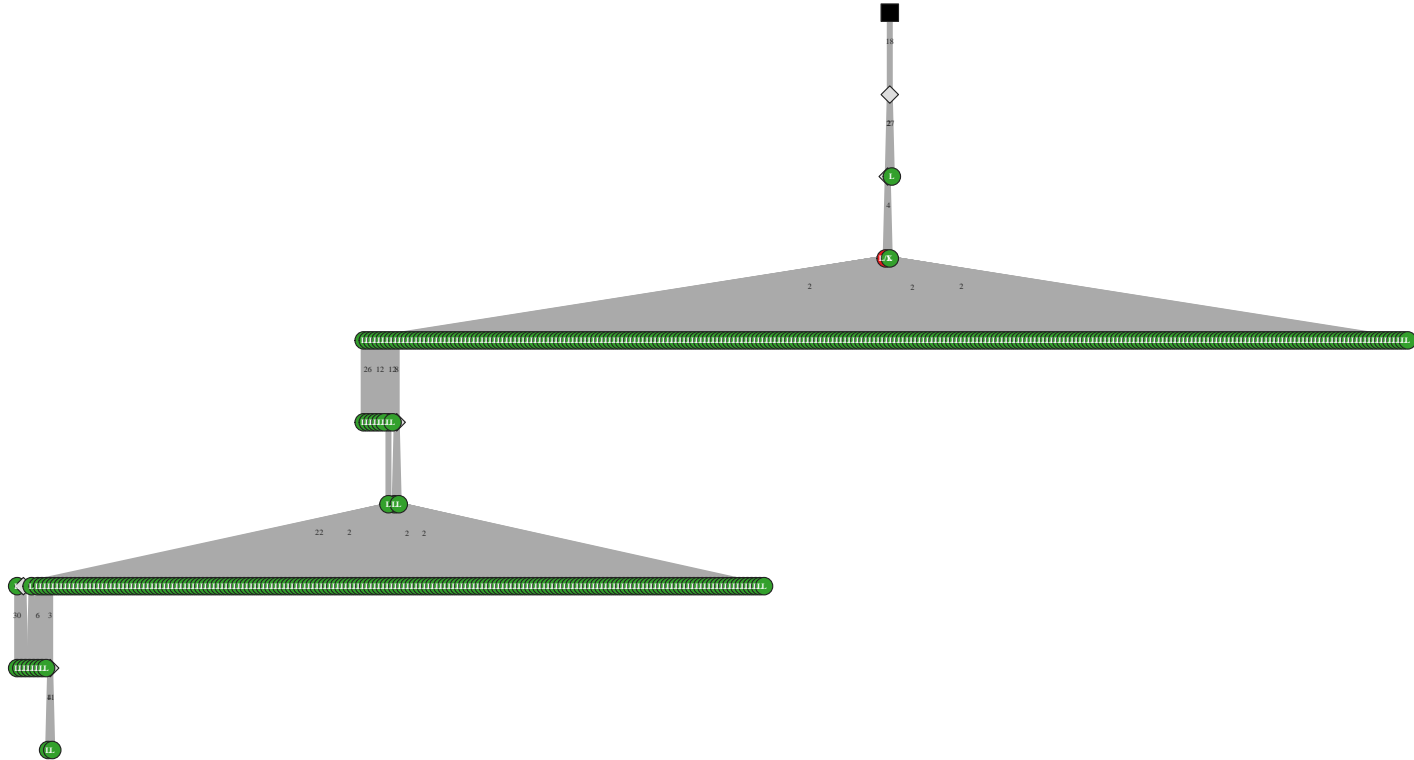
M3 IgG IGHV3-30-3/J2 54bp (3413)



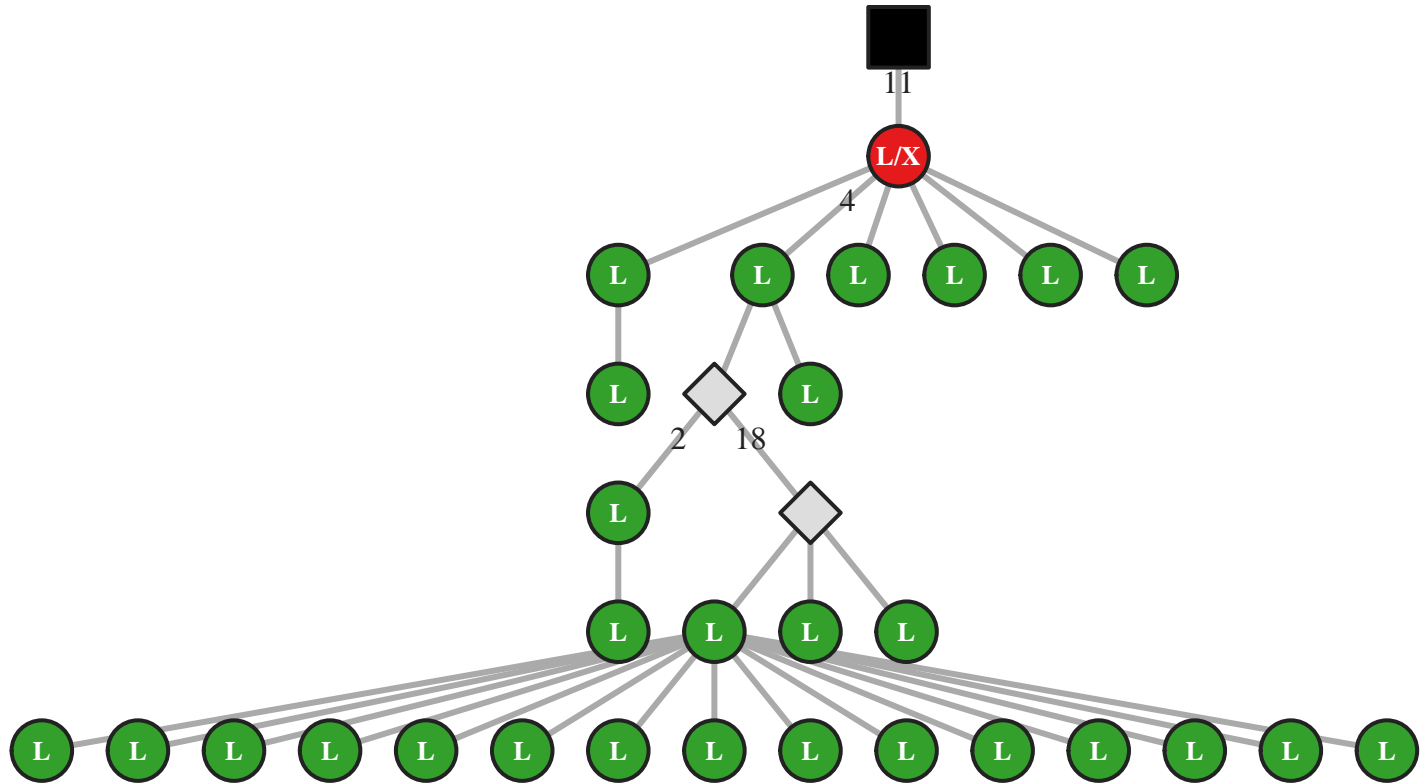
M3 IgG IGHV3-30-3/J4 48bp (3302)



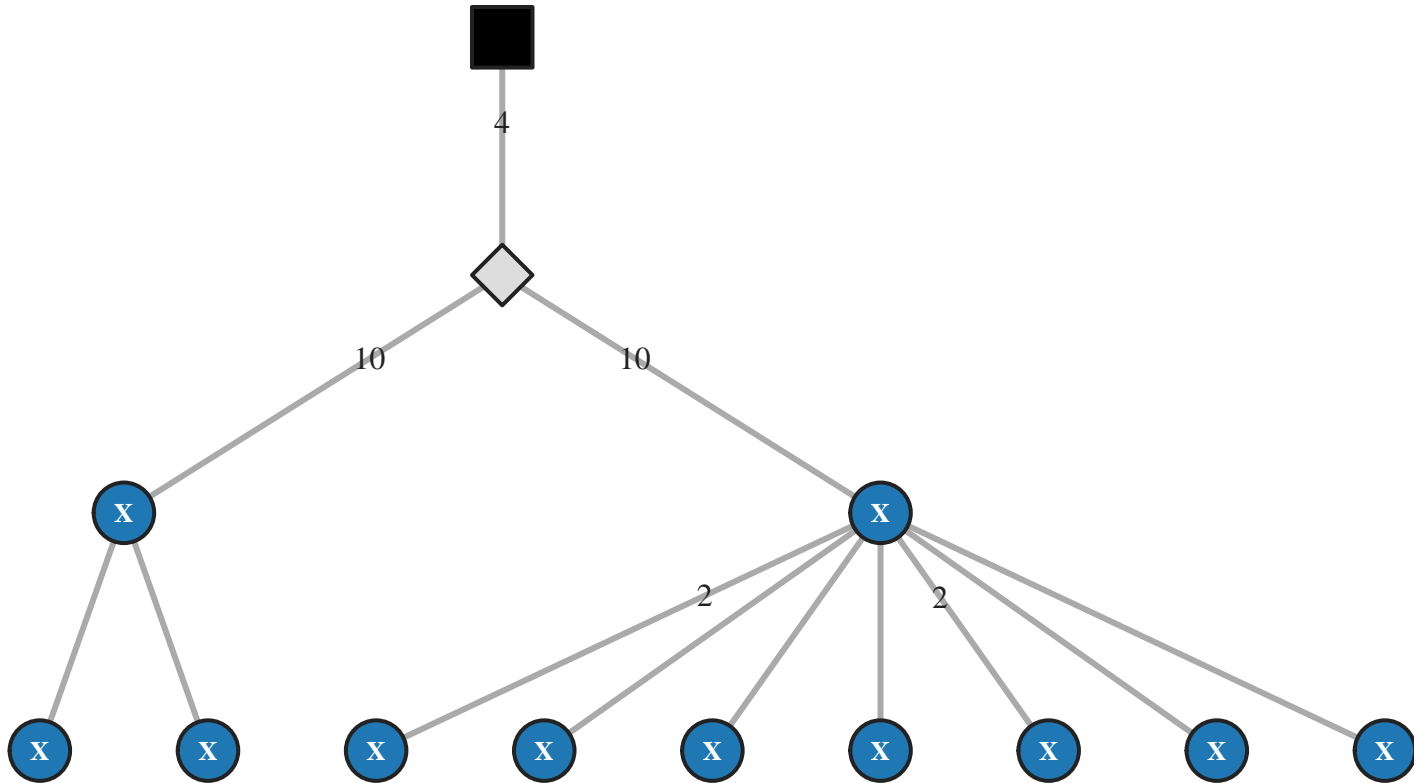
M3 IgG IGHV3-30-3/J4 48bp (3308)



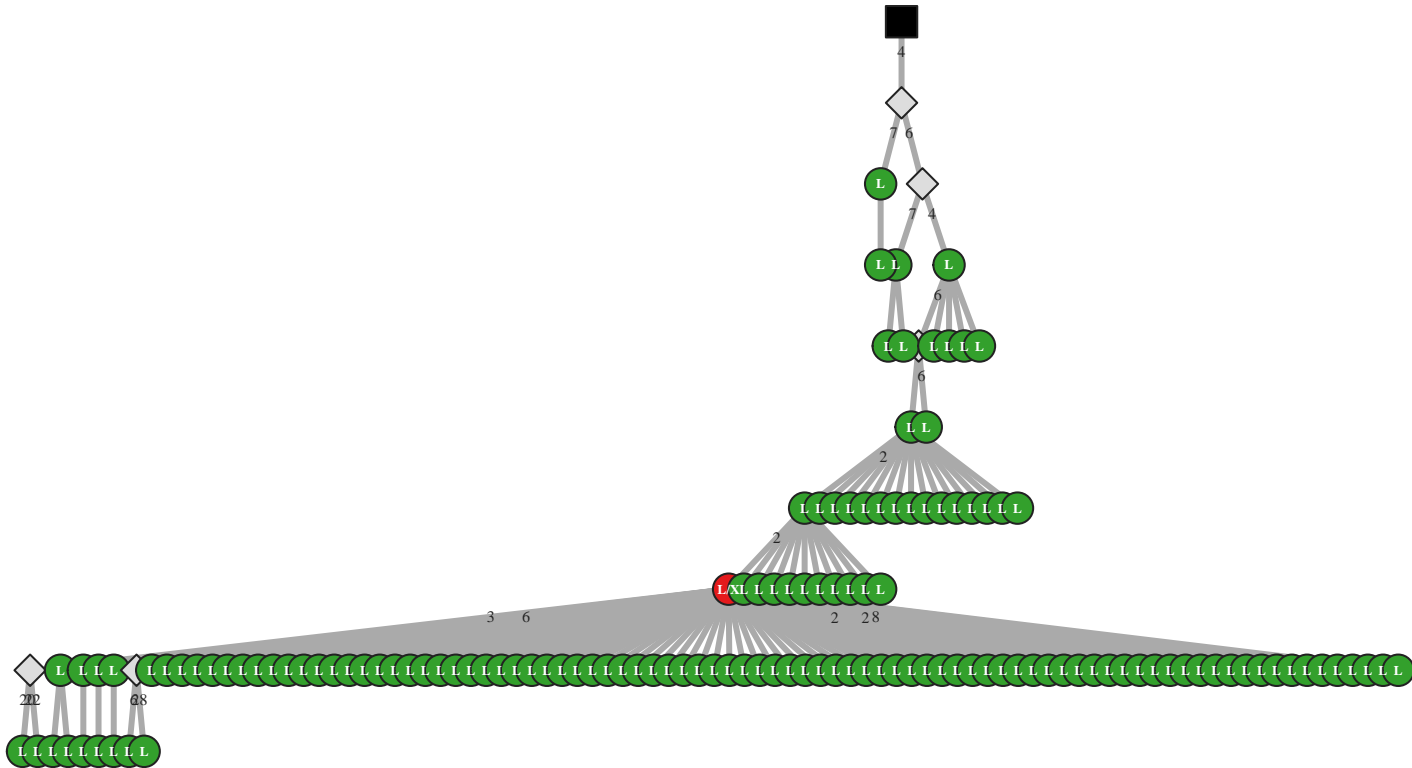
M3 IgG IGHV3-30-3/J4 48bp (3319)



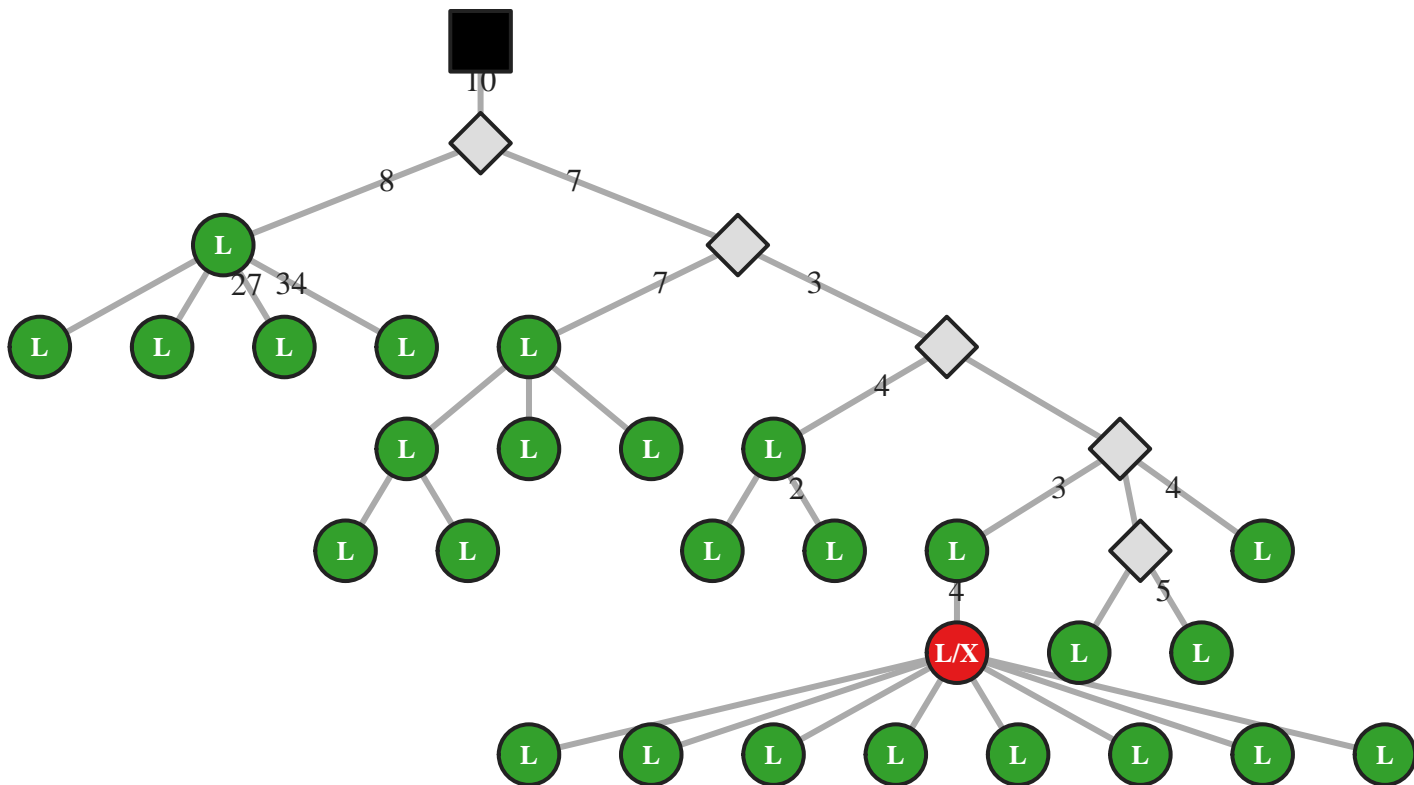
M3 IgG IGHV3-30-3/J4 63bp (3433)



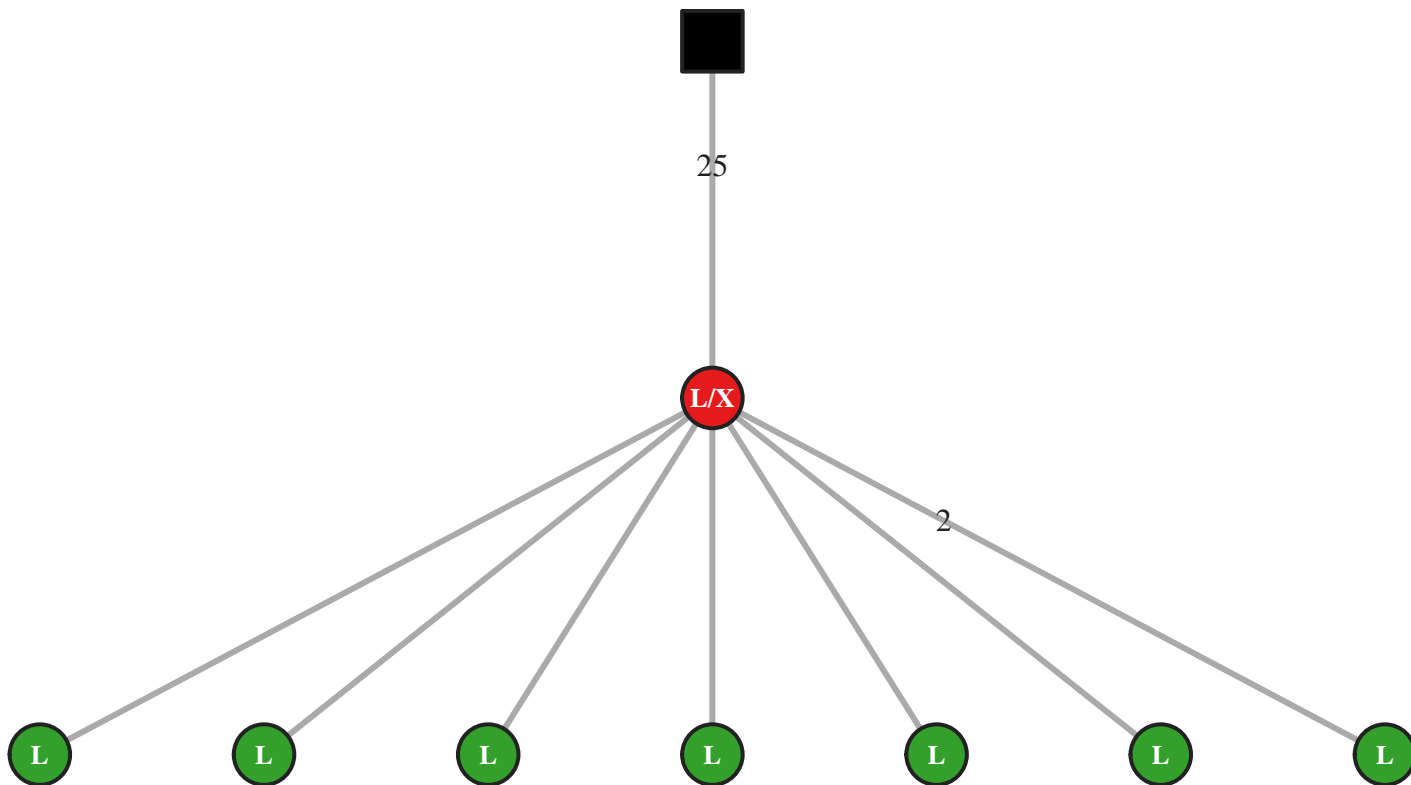
M3 IgG IGHV3-30-3/J6 51bp (3445)



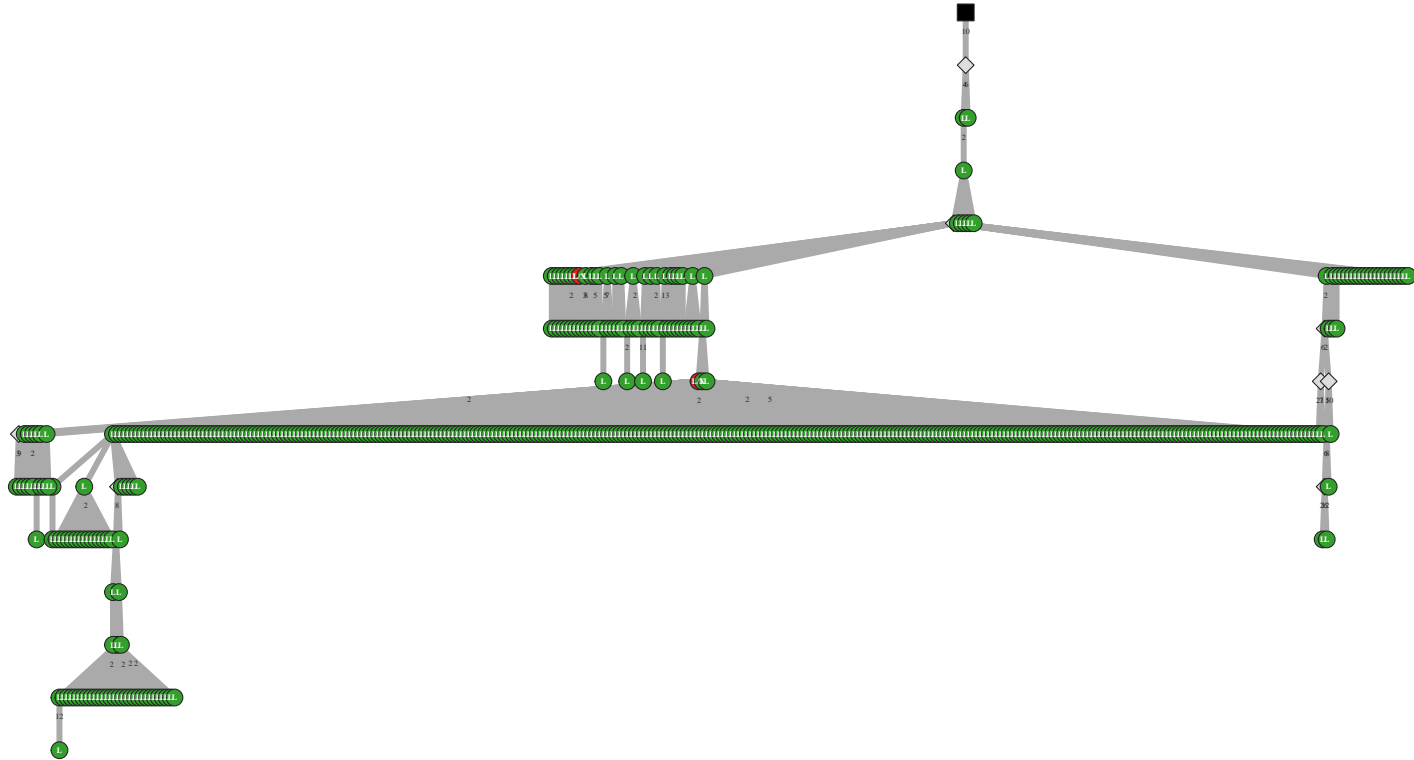
M3 IgG IGHV3-33/J3 48bp (11618)



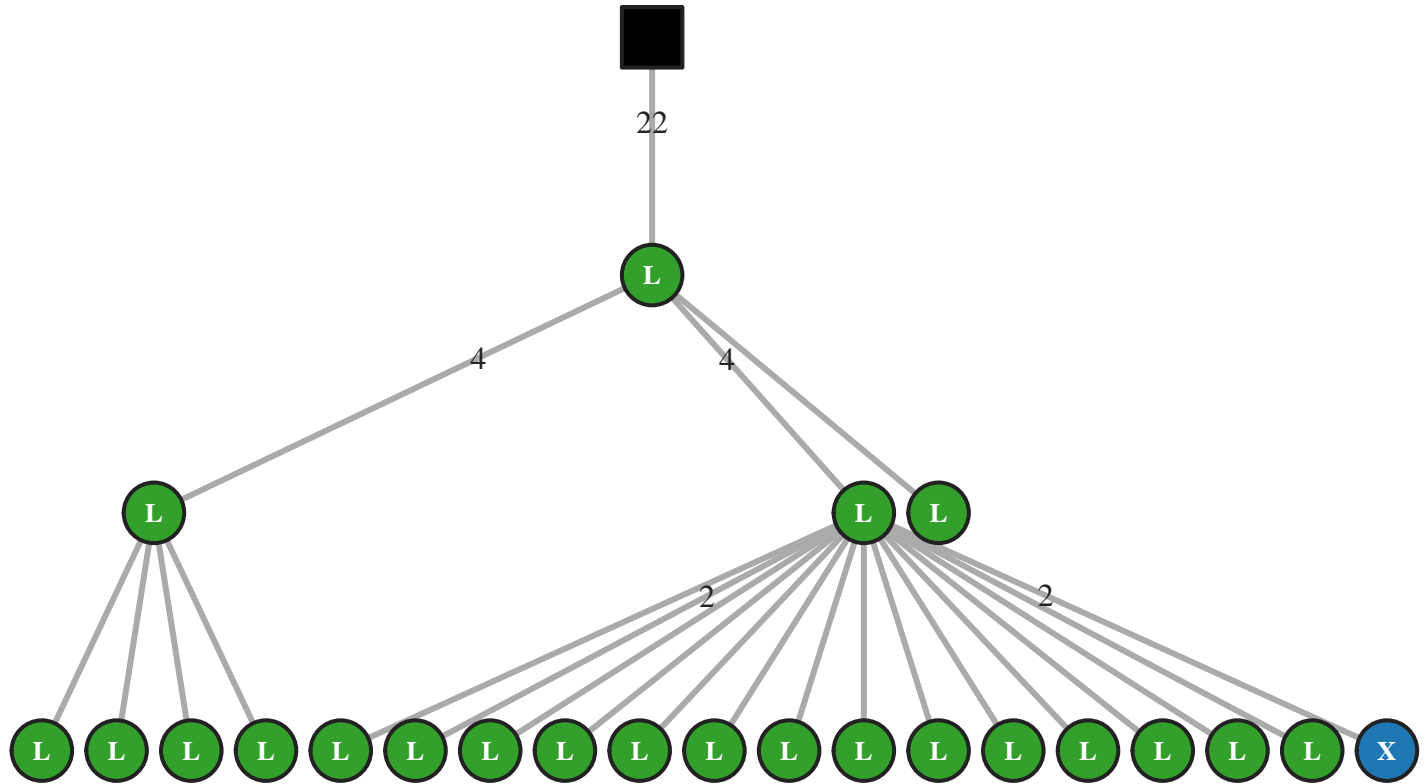
M3 IgM IGHV3-33/J4 39bp (5291)



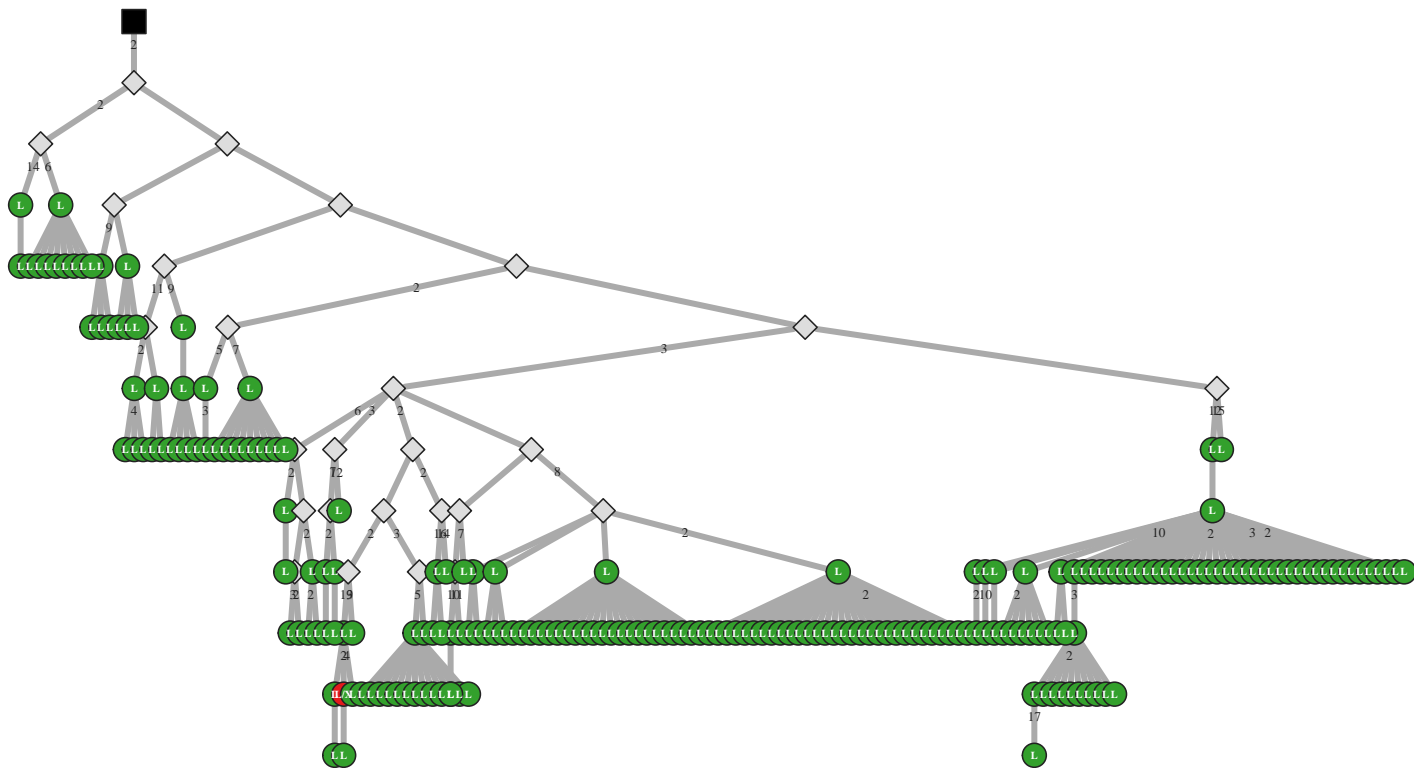
M3 IgG IGHV3-33/J4 51bp (11460)



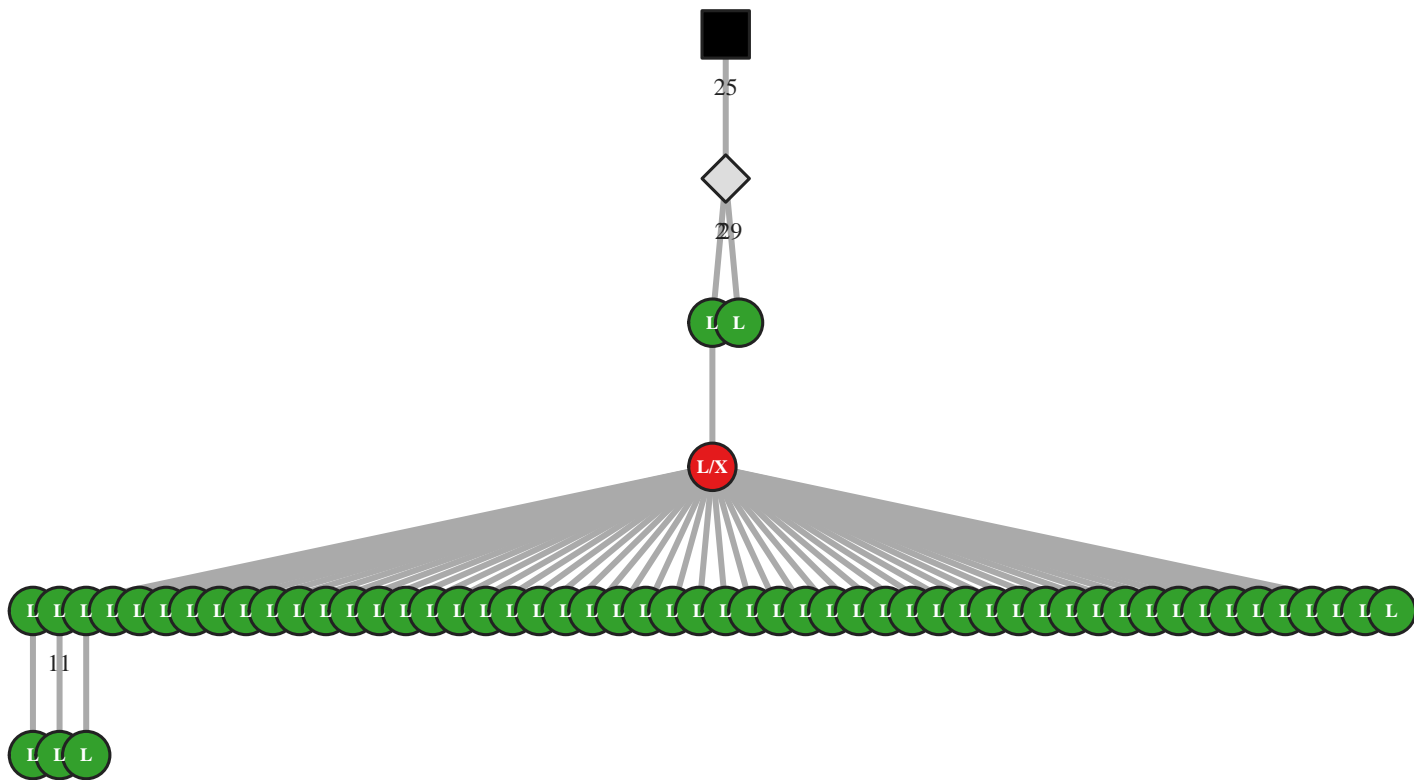
M3 IgG IGHV3-33/J4 66bp (3513)



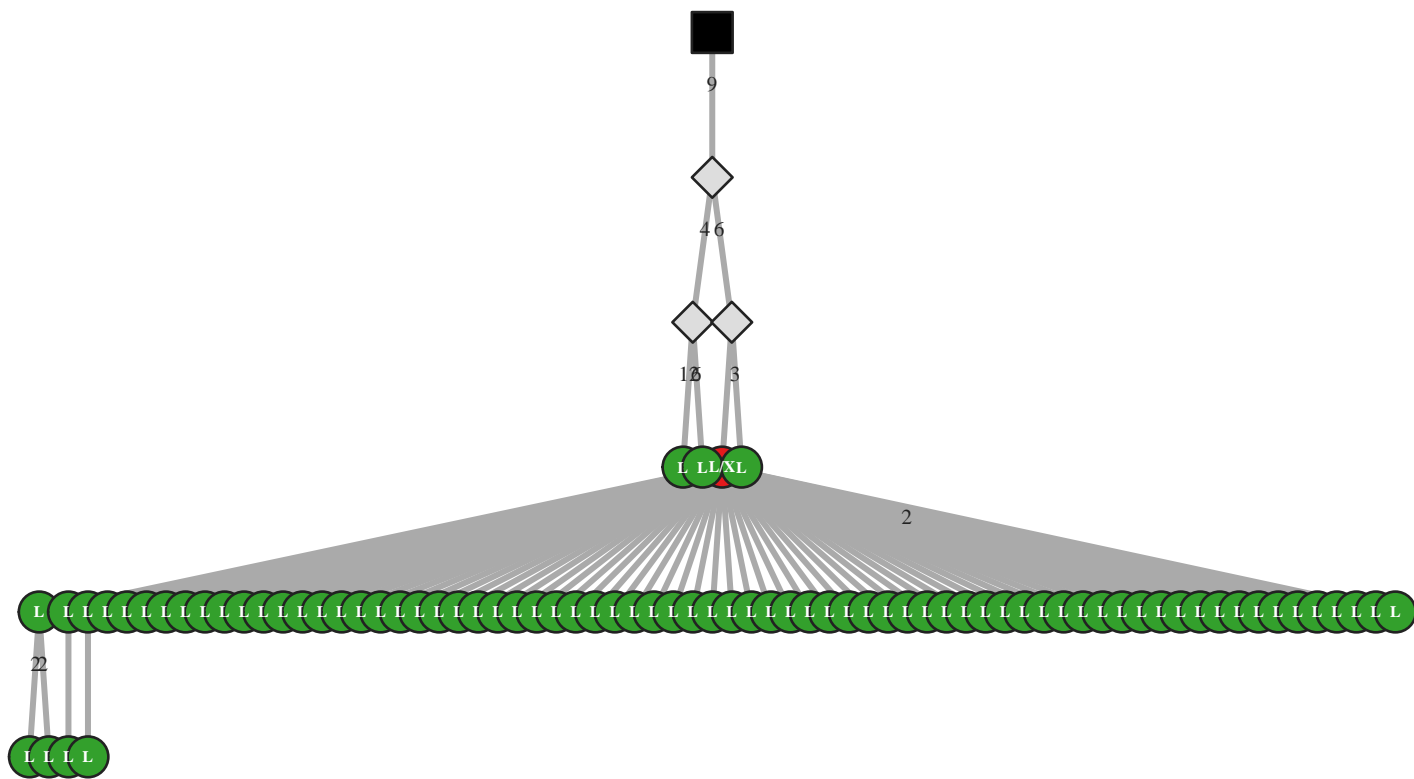
M3 IgG IGHV3-33/J6 48bp (11642)



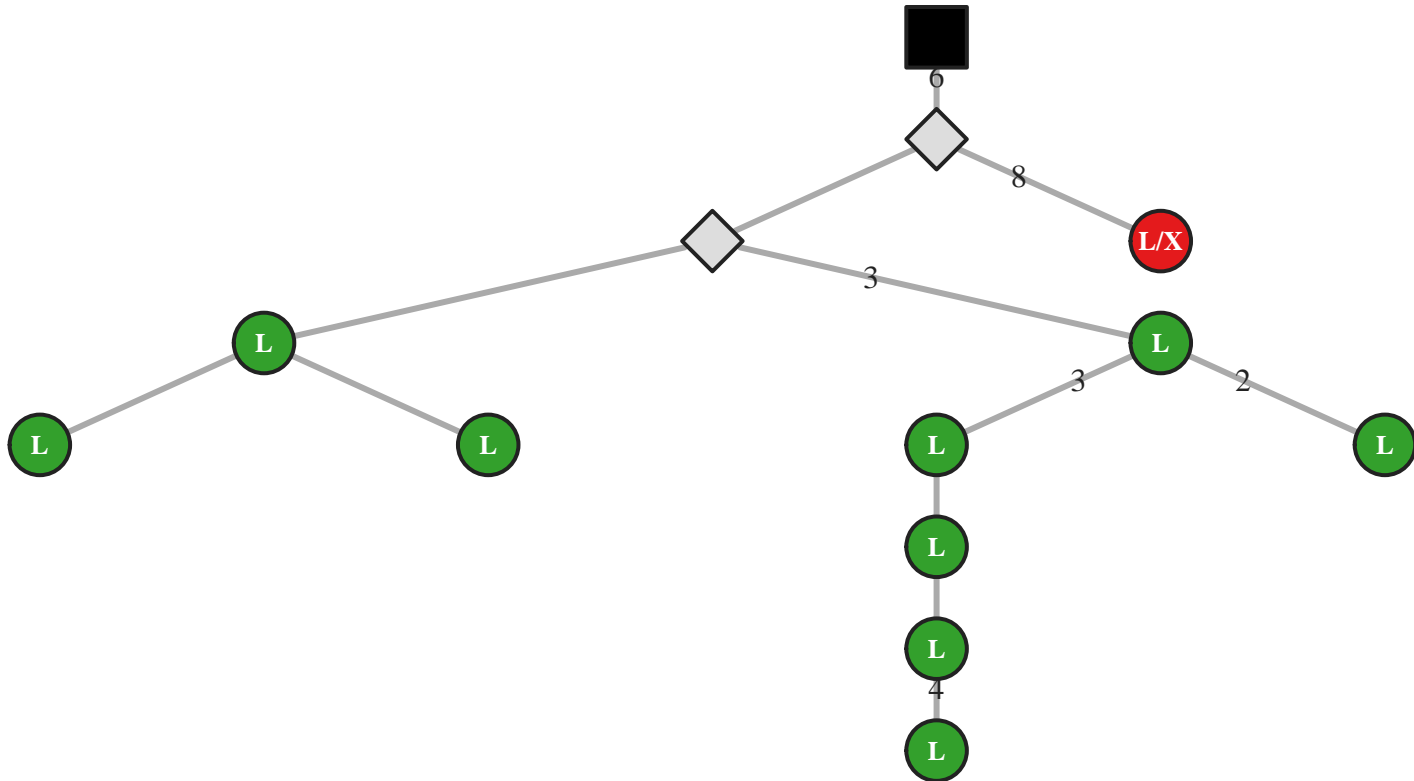
M3 IgG IGHV3-33/J6 48bp (11644)



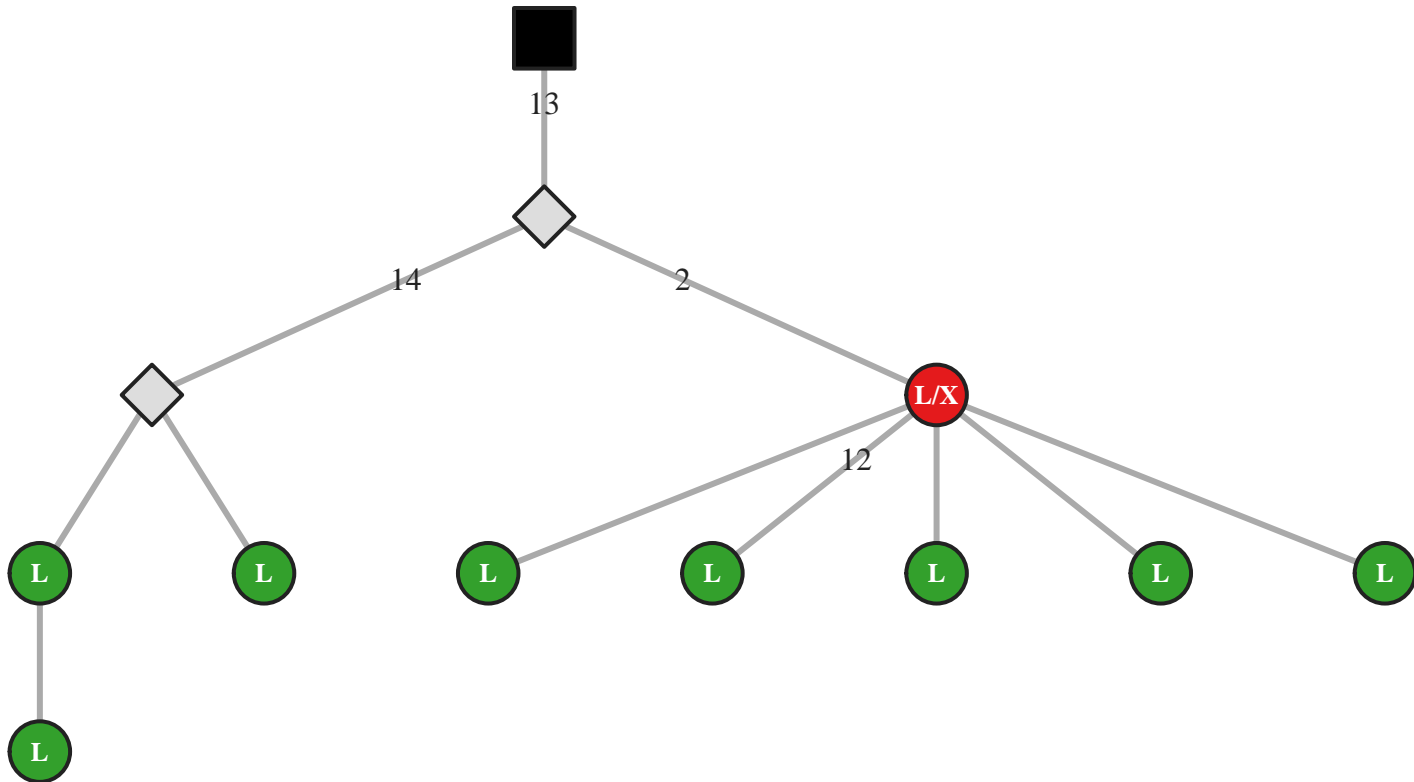
M3 IgA IGHV3-48/J4 42bp (2179)



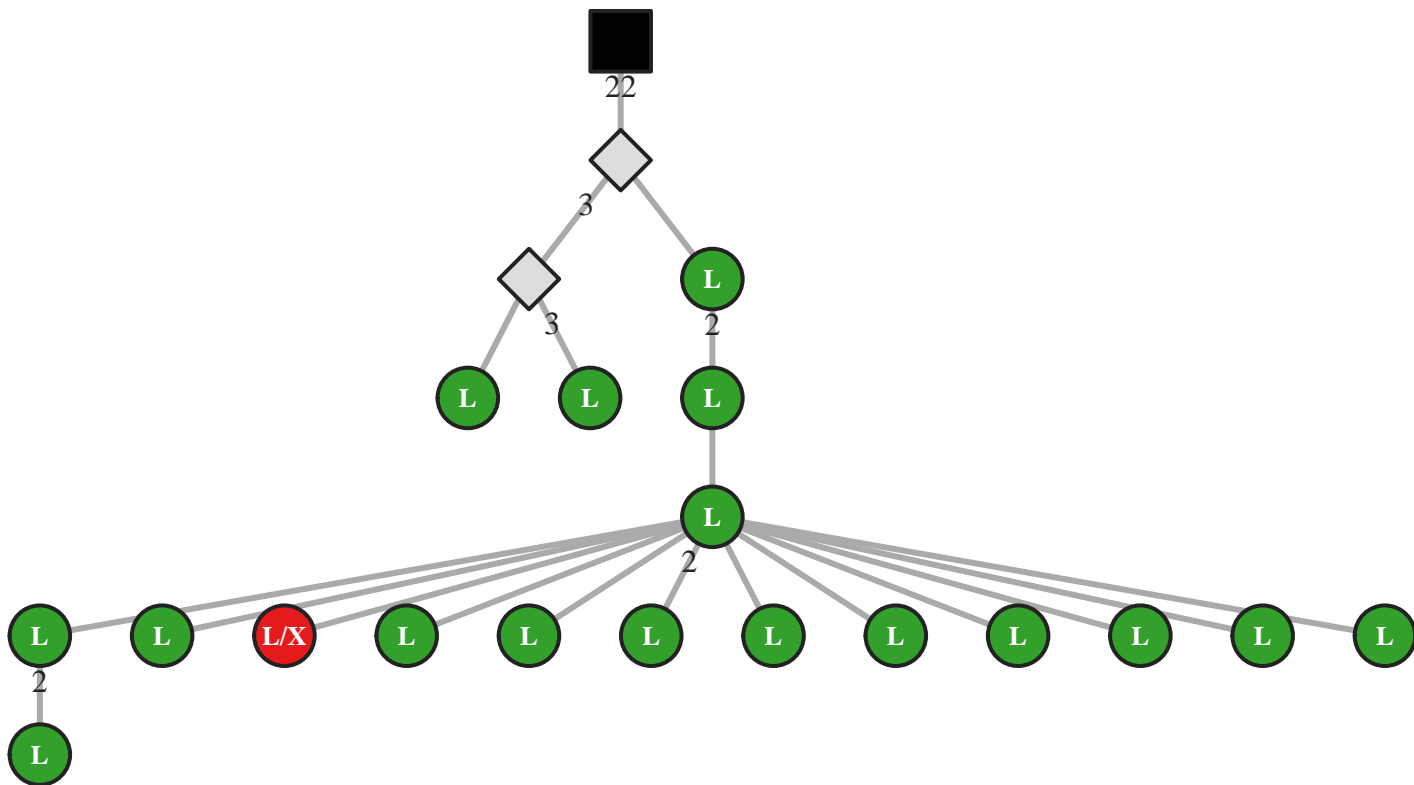
M3 IgG IGHV3-48/J4 54bp (3571)



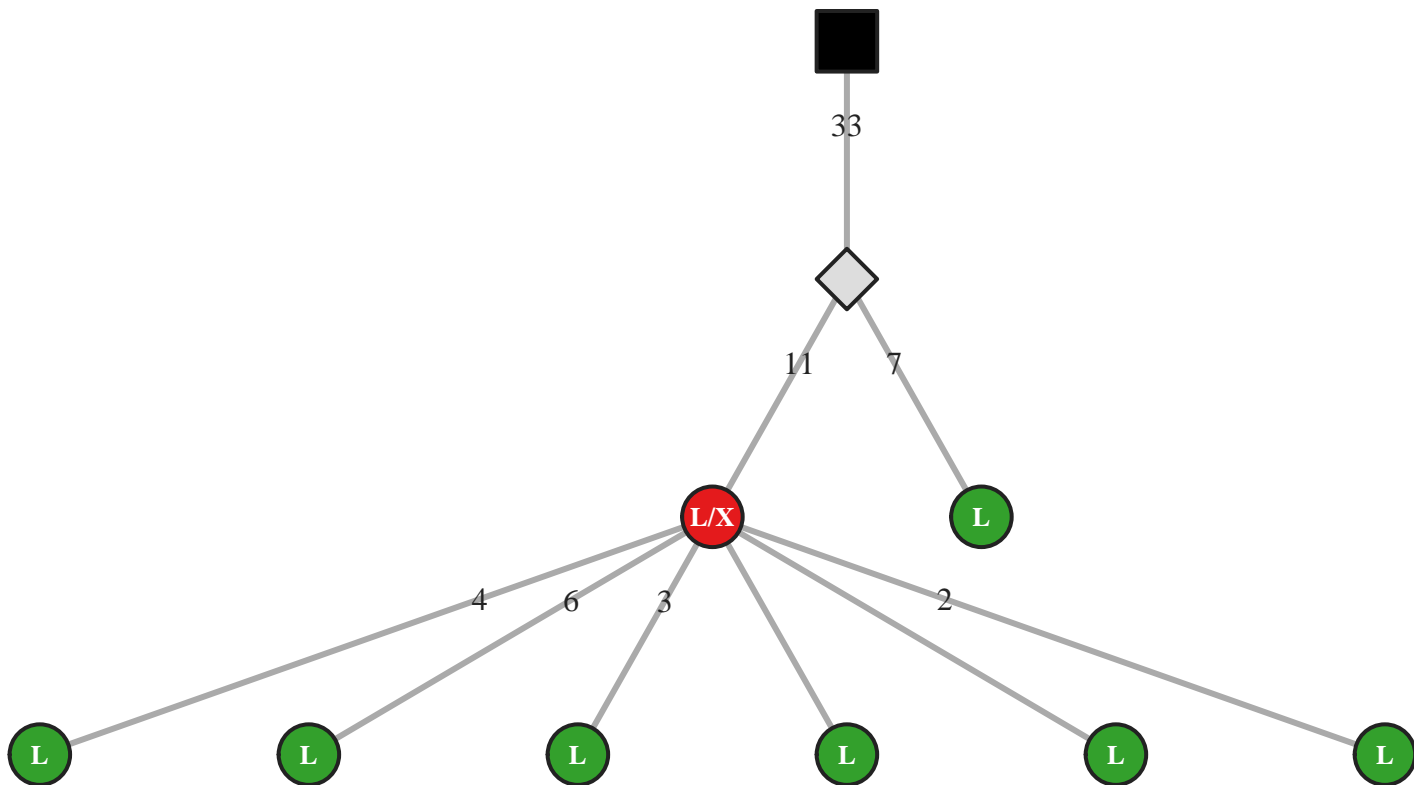
M3 IgG IGHV3-53/J3 42bp (7463)



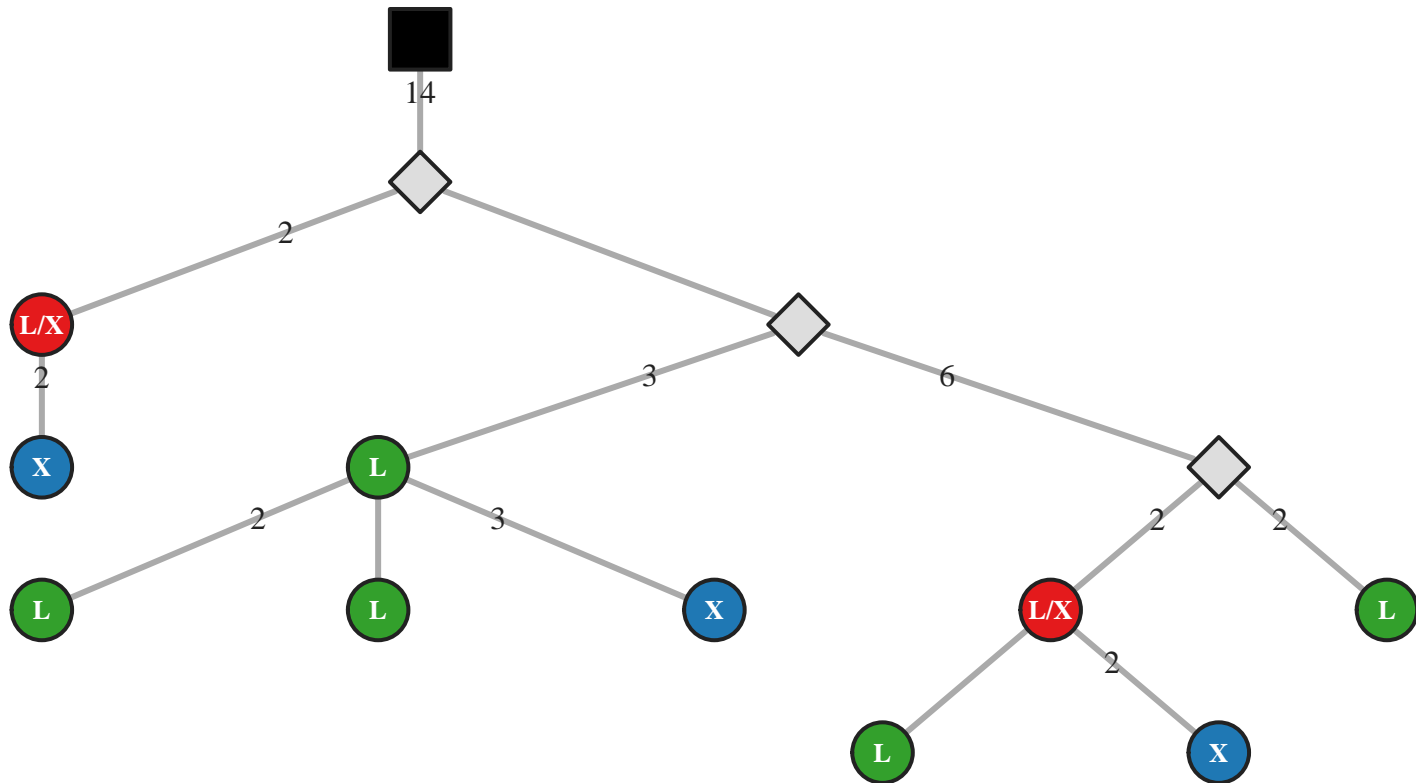
M3 IgG IGHV3-53/J4 42bp (14967)



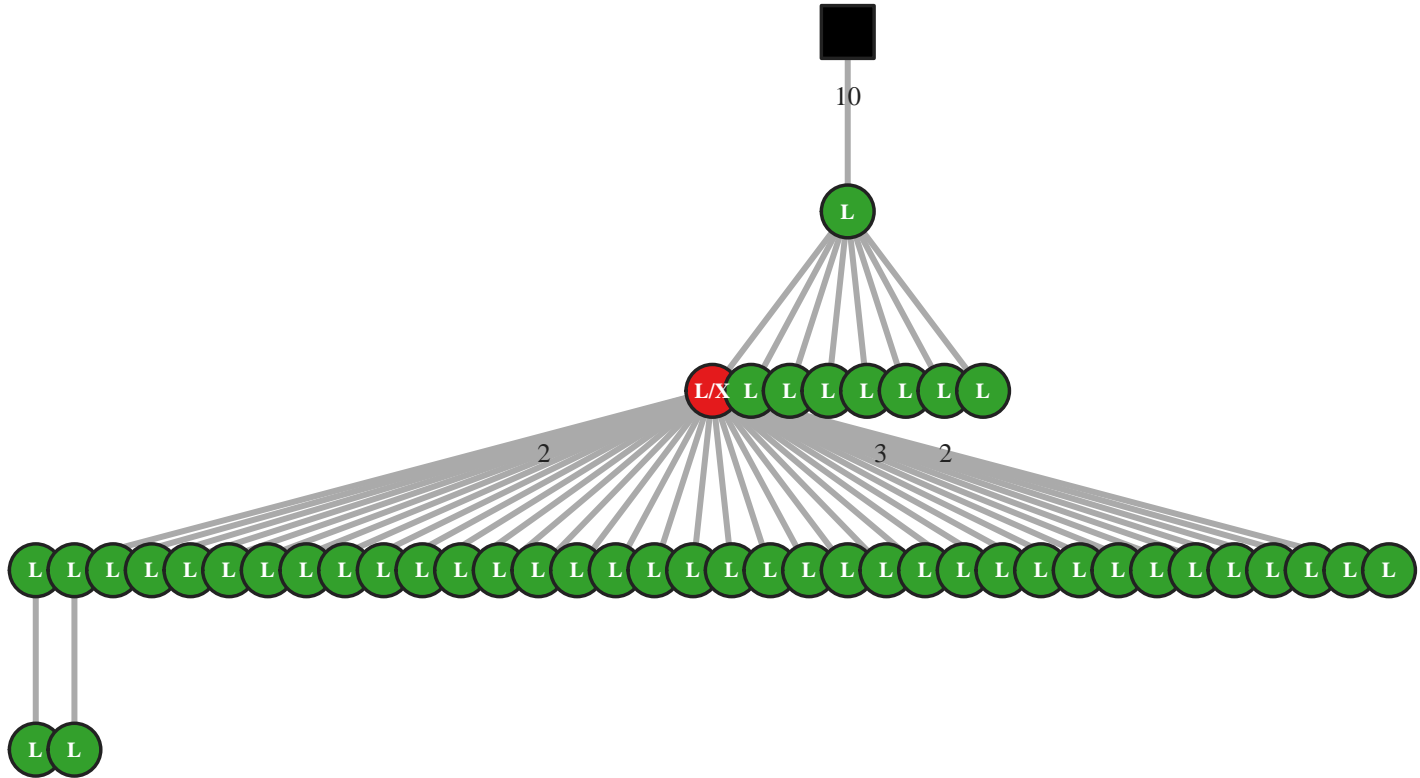
M3 IgG IGHV3-53/J5 42bp (3603)



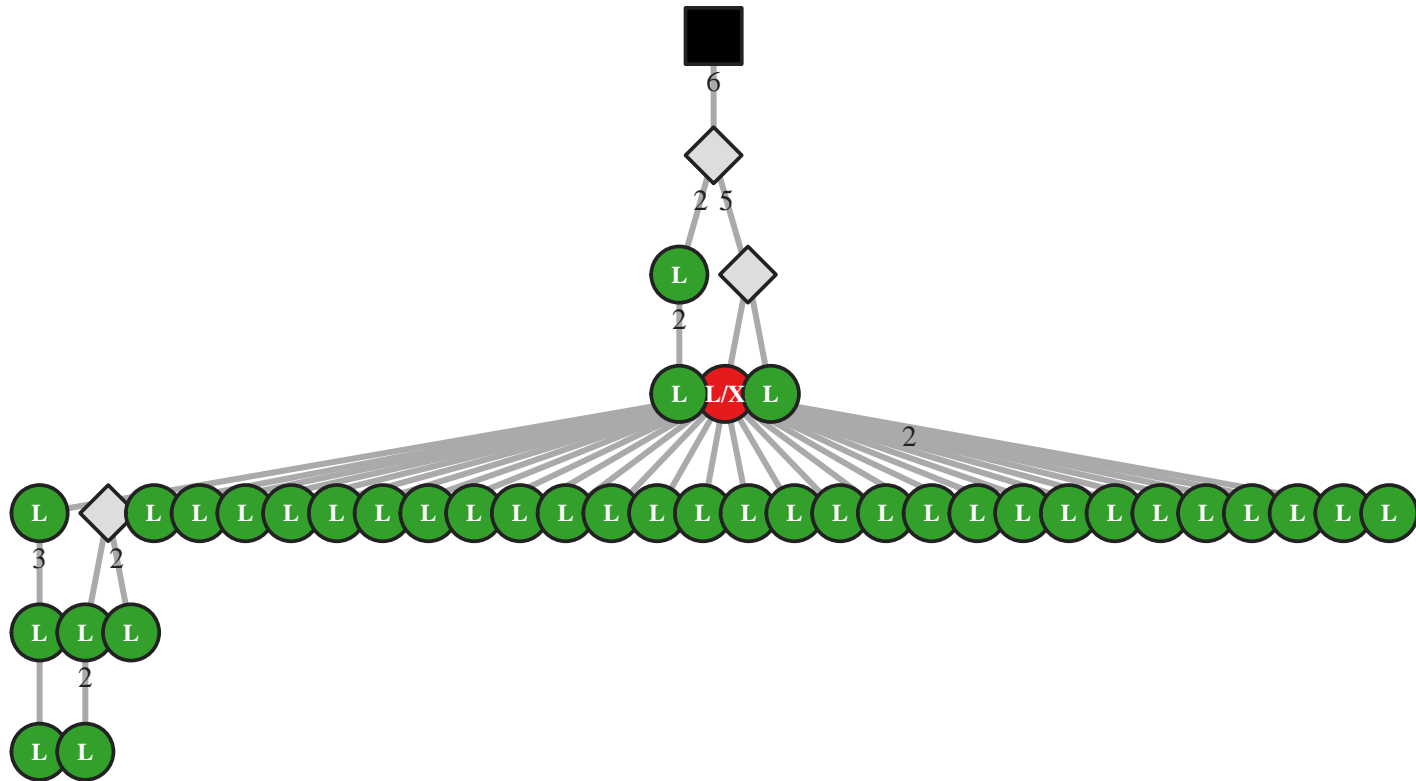
M3 IgG IGHV3-7/J1 60bp (11774)



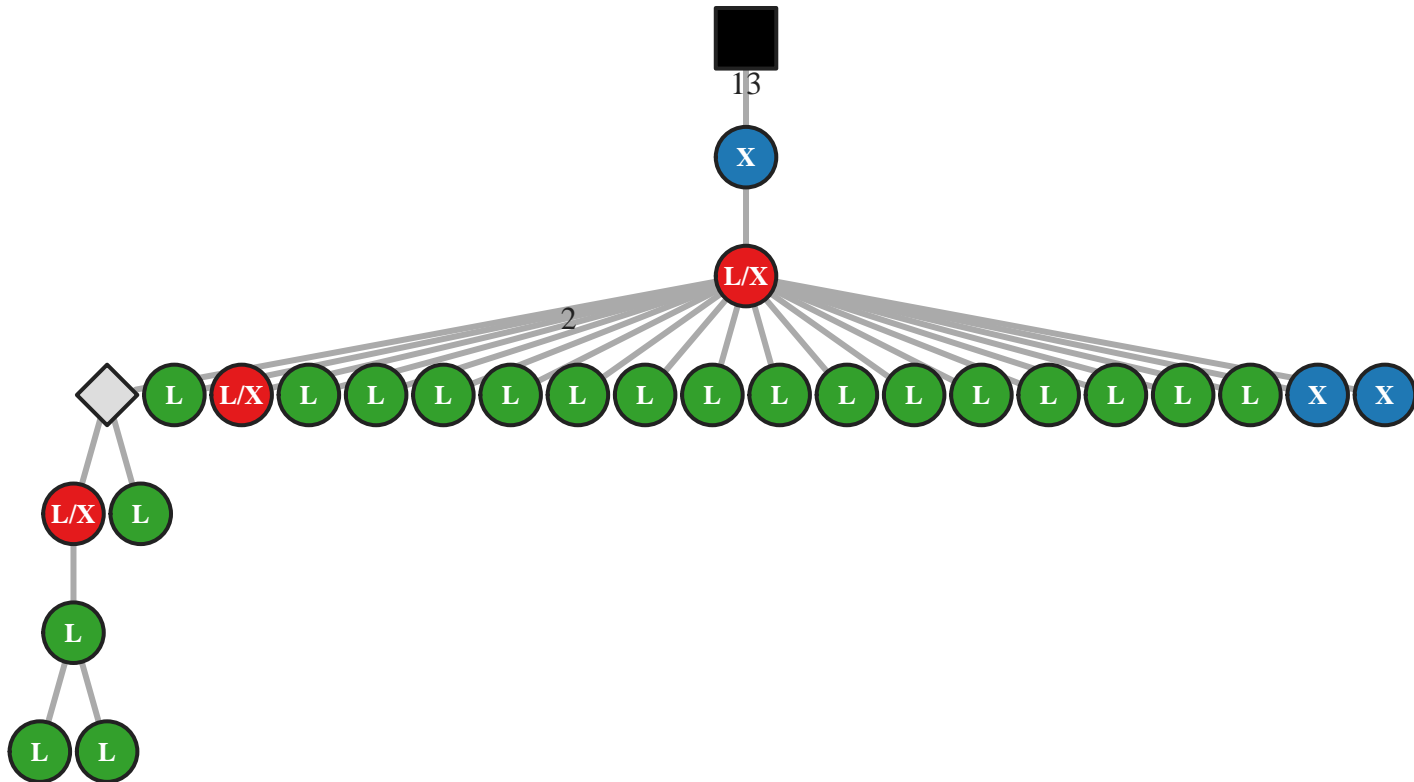
M3 IgG IGHV3-7/J4 30bp (3688)



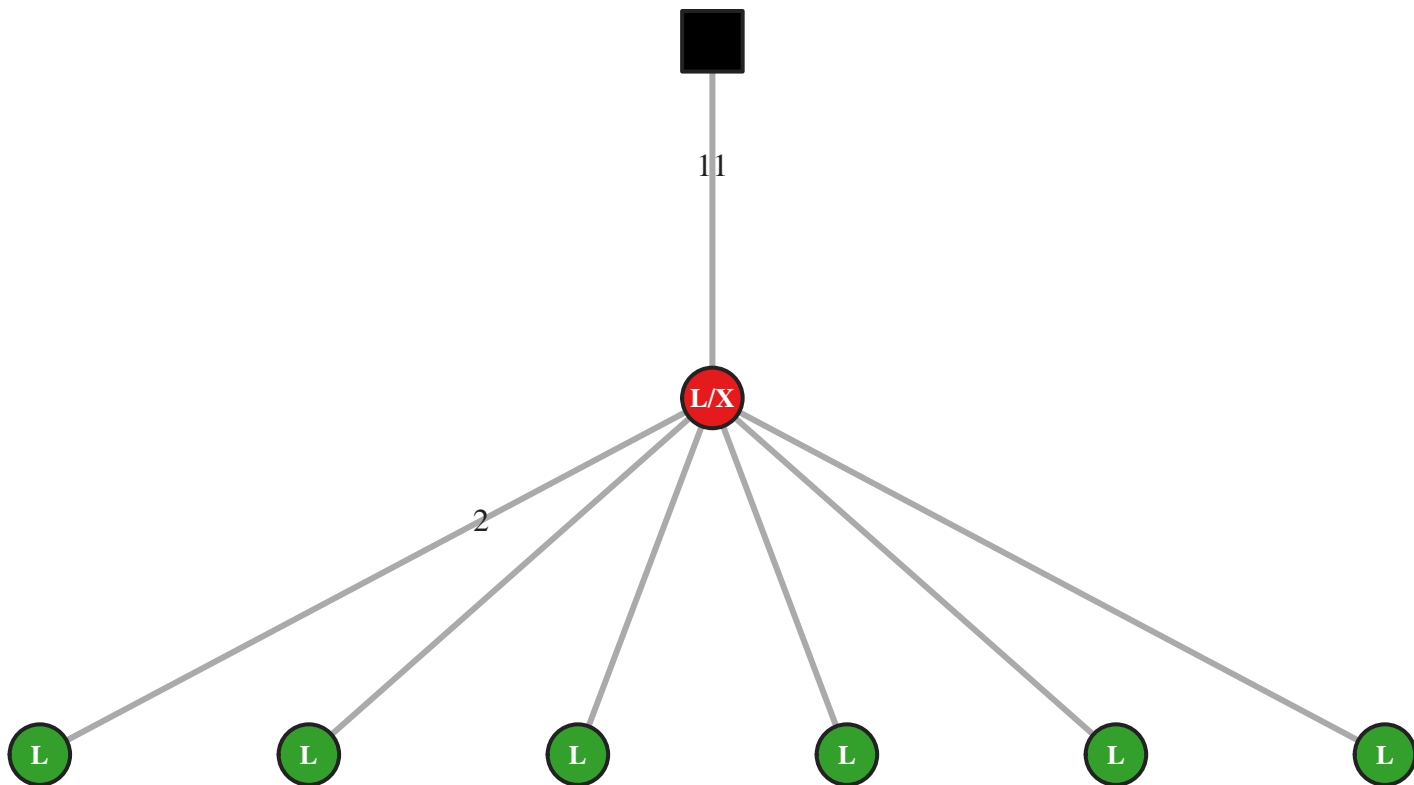
M3 IgG IGHV3-7/J4 30bp (3689)



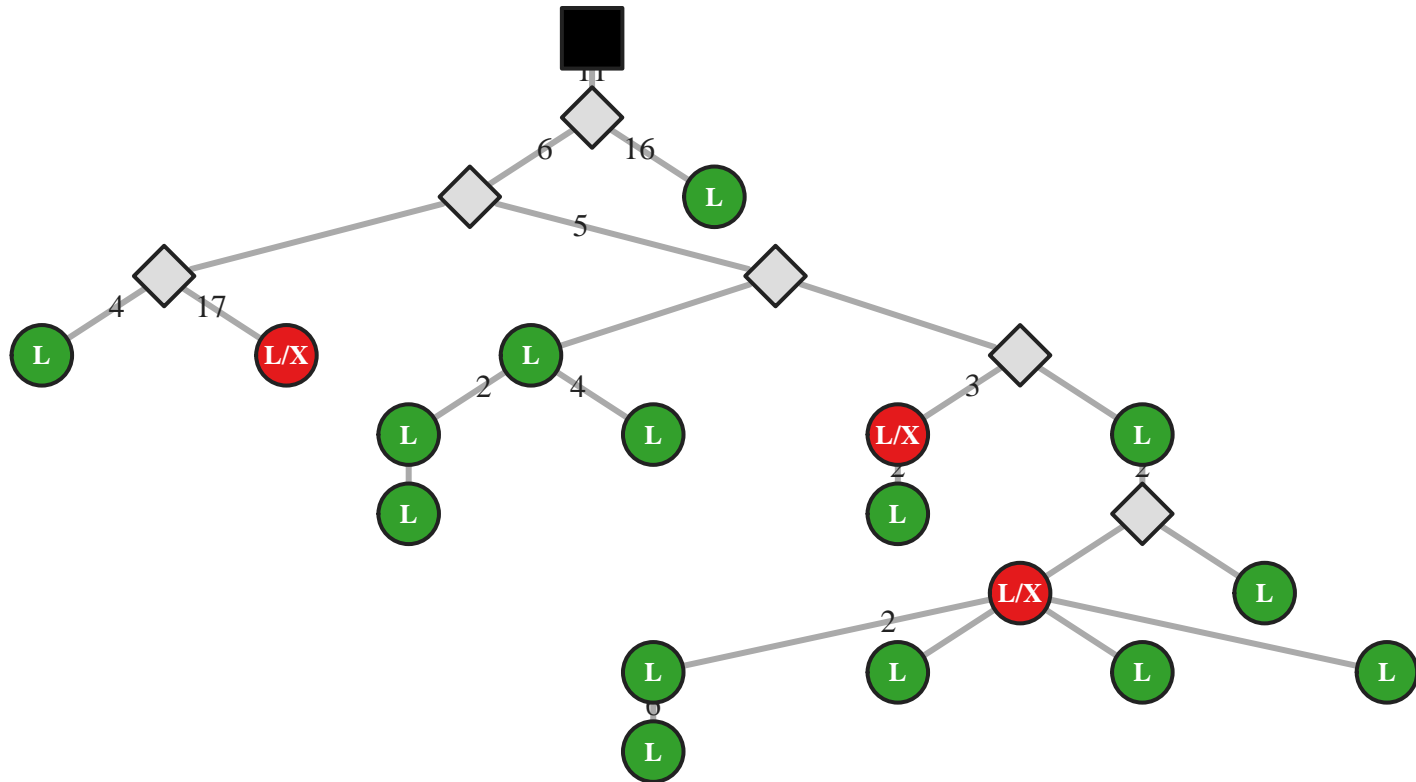
M3 IgG IGHV3-7/J4 33bp (7575)



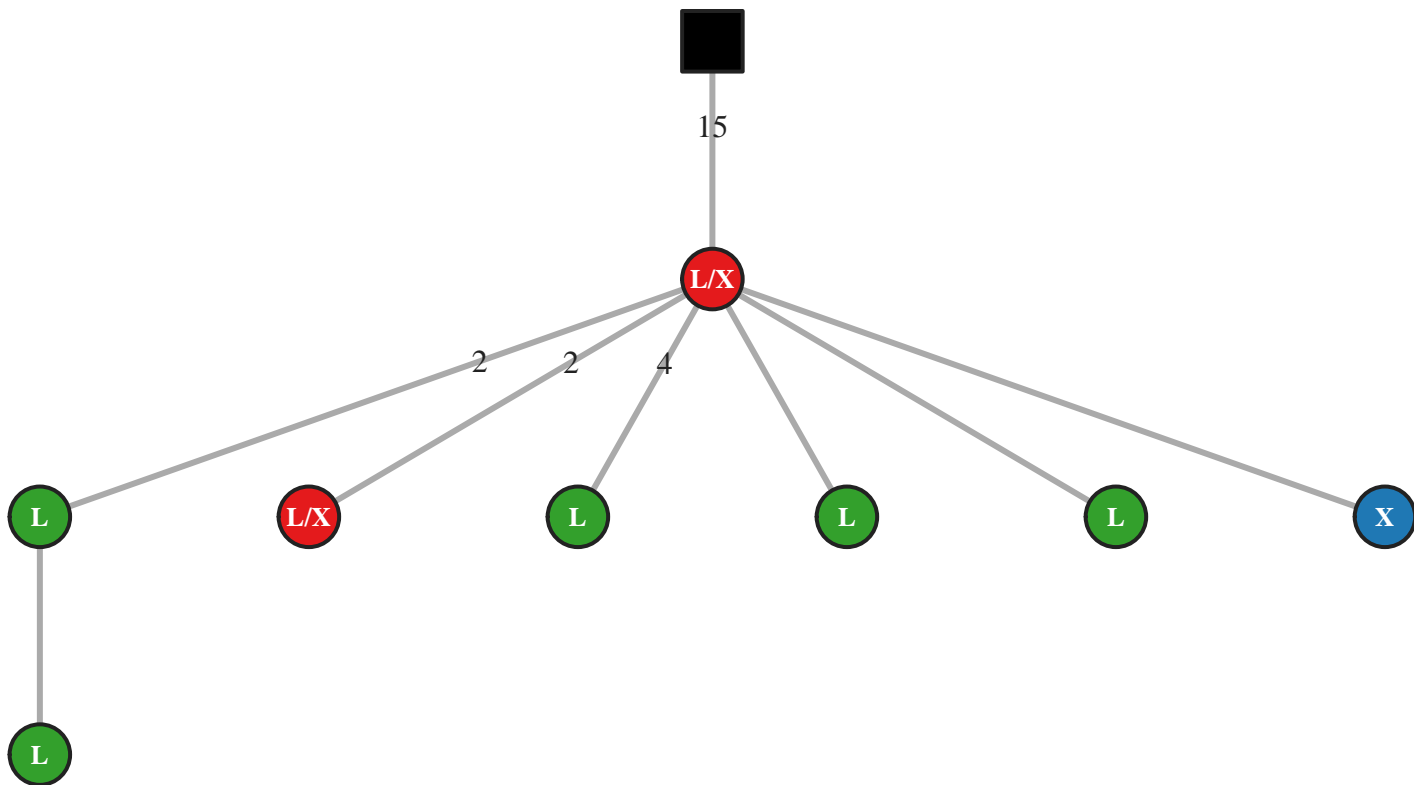
M3 IgG IGHV3-7/J4 36bp (11779)



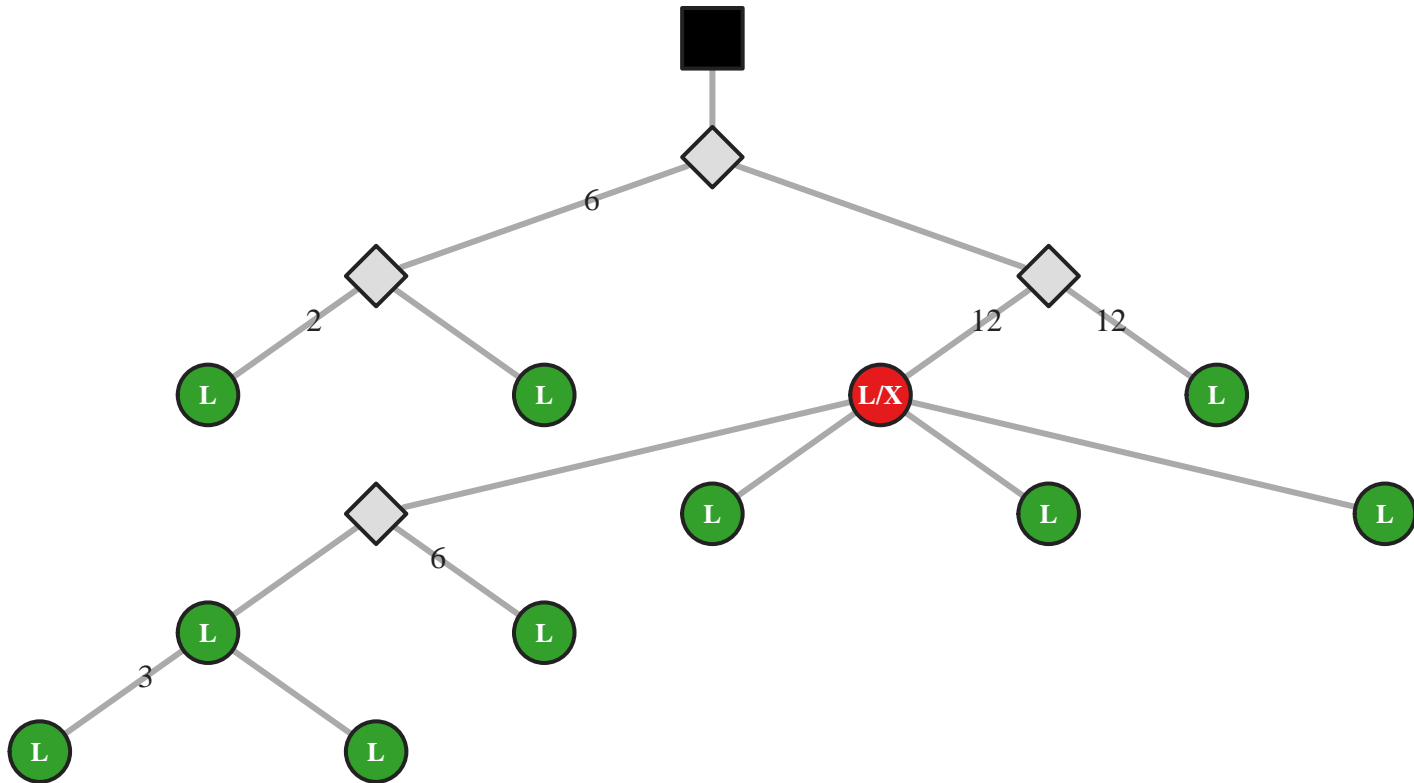
M3 IgG IGHV3-7/J4 36bp (11792)



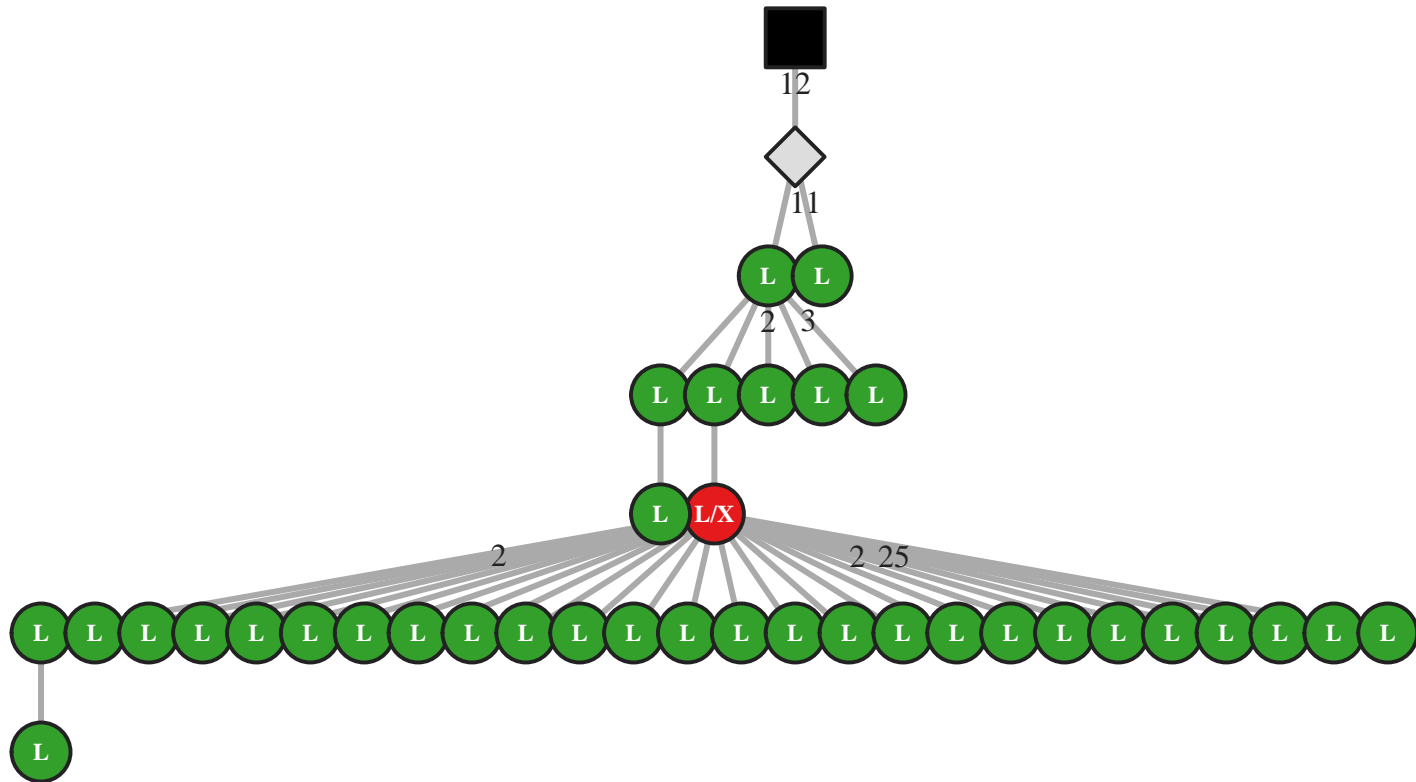
M3 IgG IGHV3-7/J4 42bp (11812)



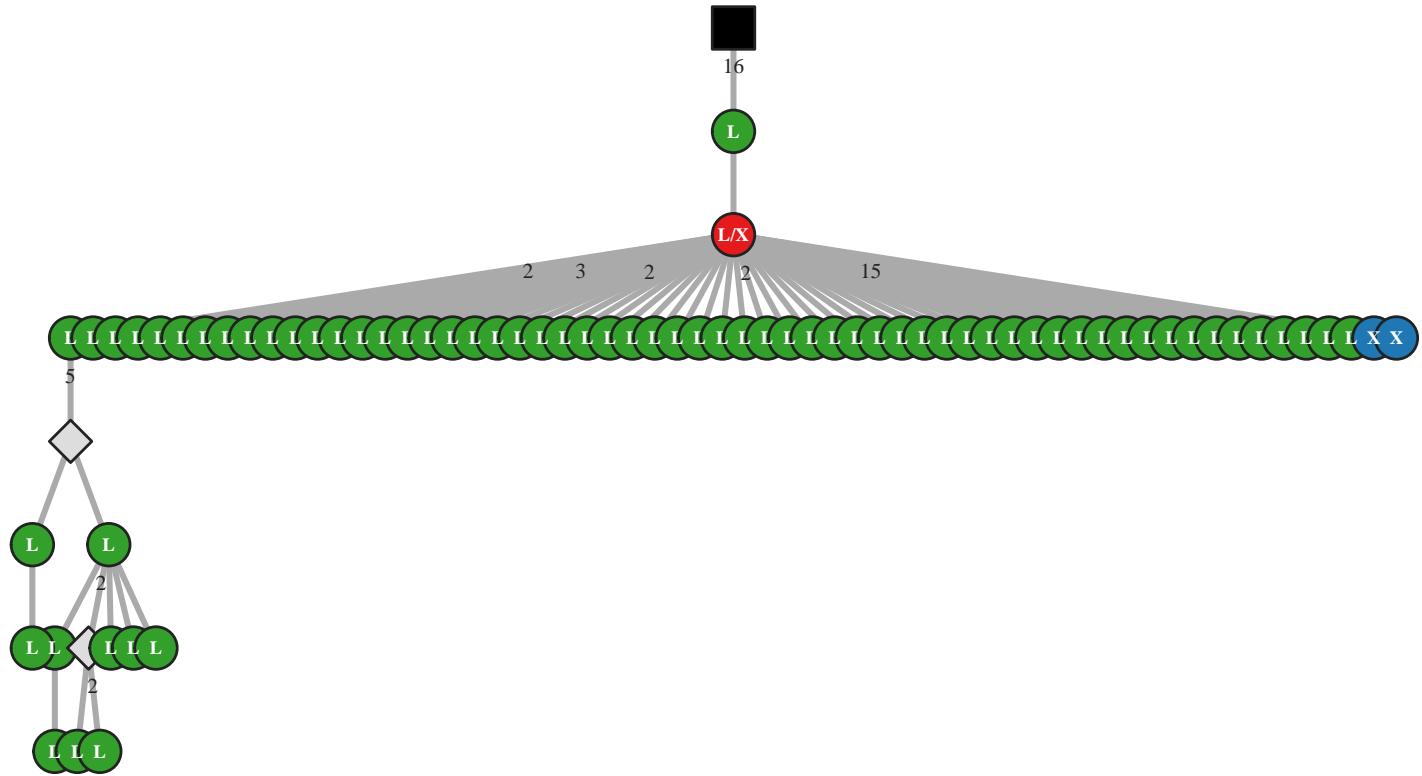
M3 IgG IGHV3-7/J4 42bp (11813)



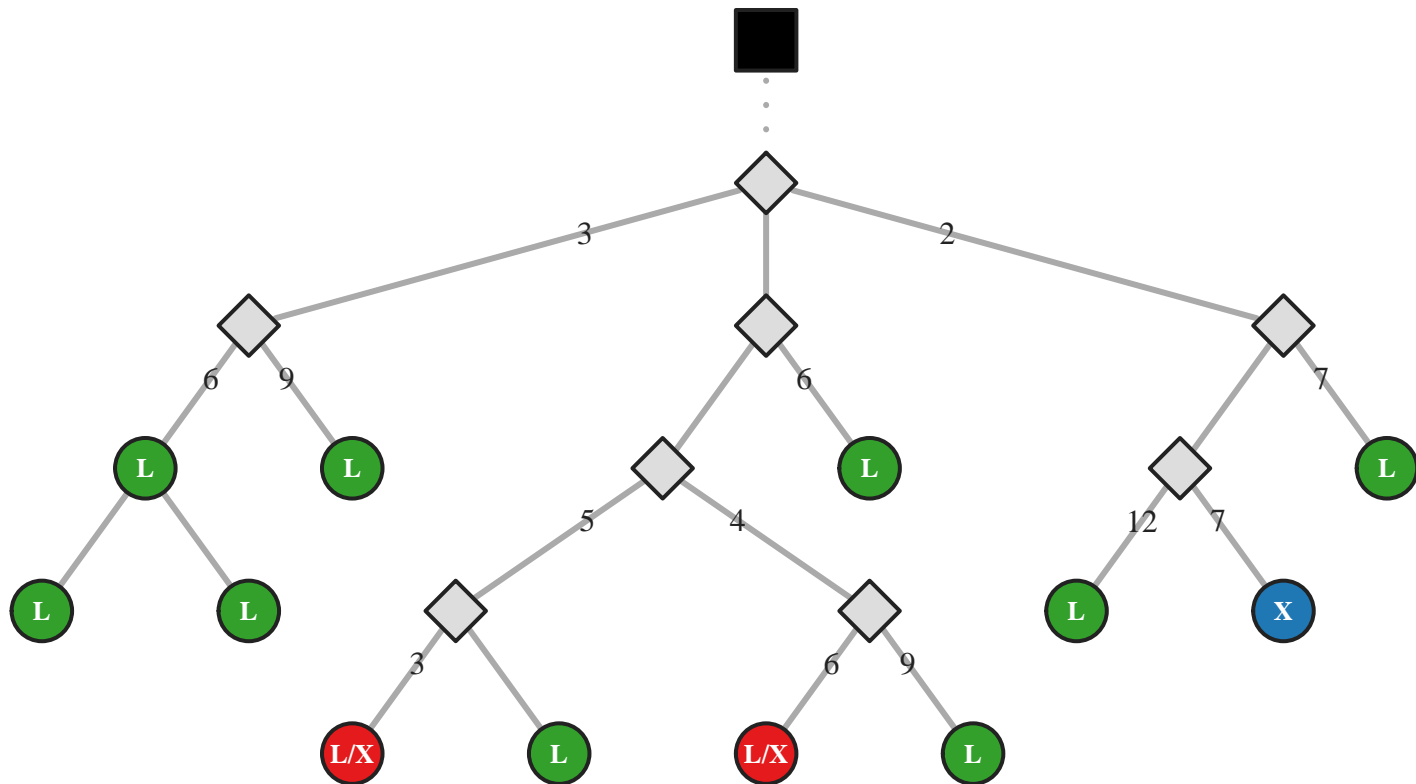
M3 IgG IGHV3-7/J4 42bp (11819)



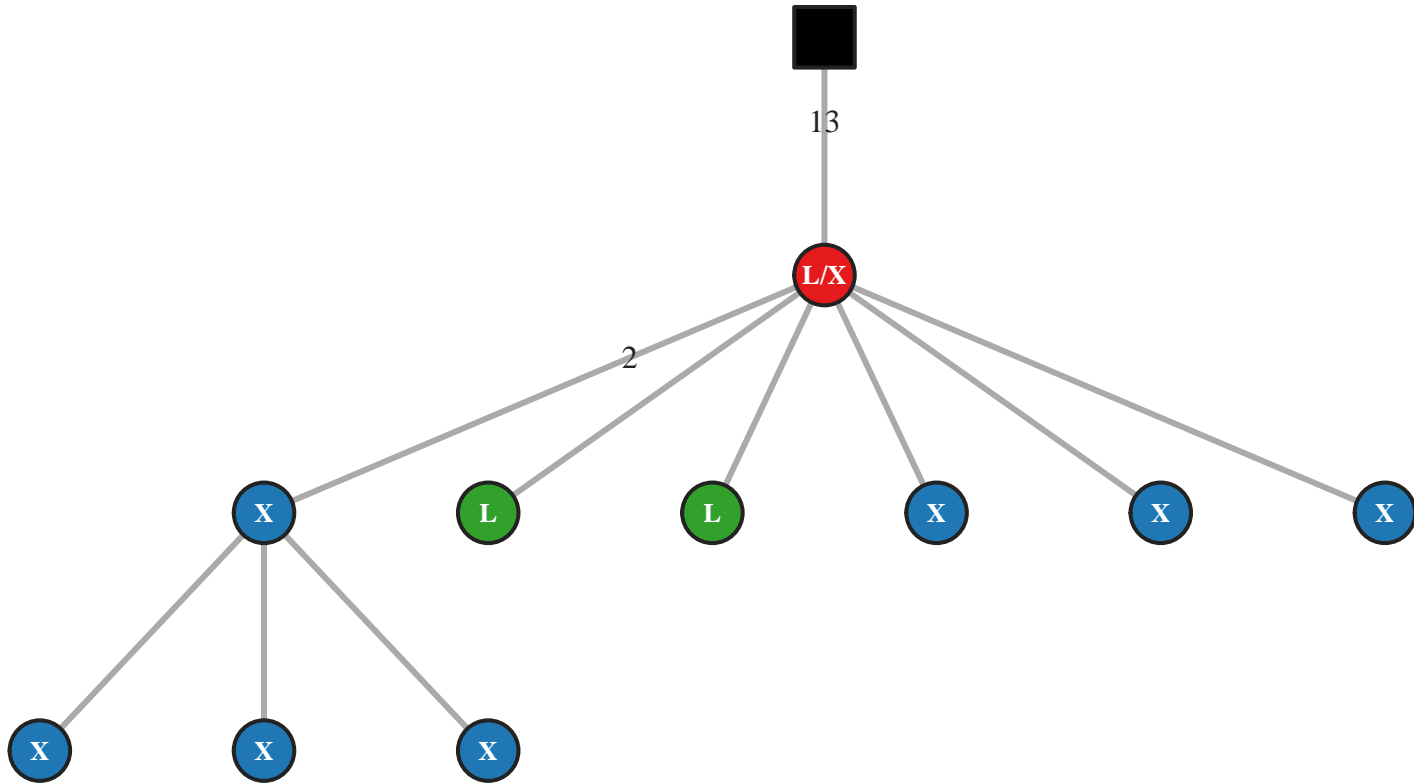
M3 IgG IGHV3-7/J4 45bp (7585)



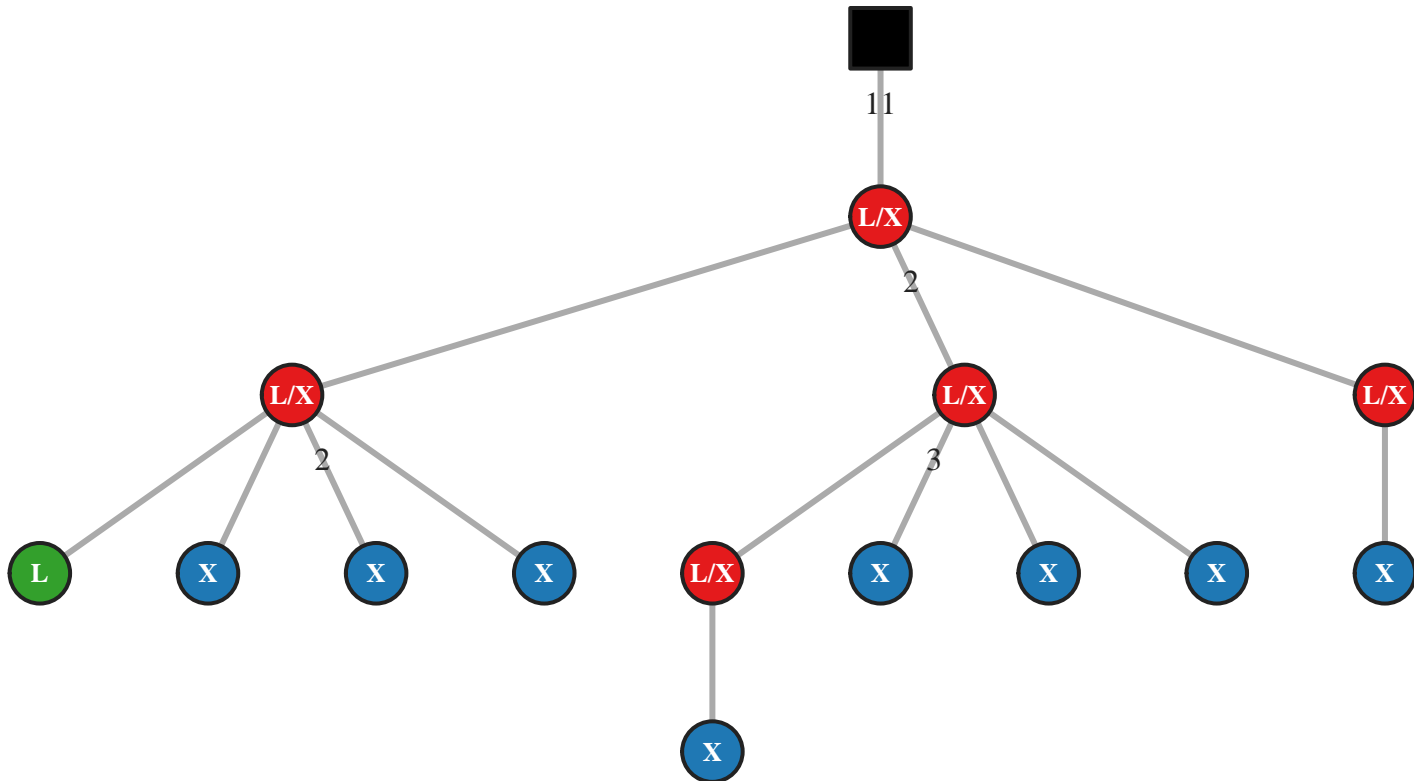
M3 IgG IGHV3-7/J4 51bp (15033)



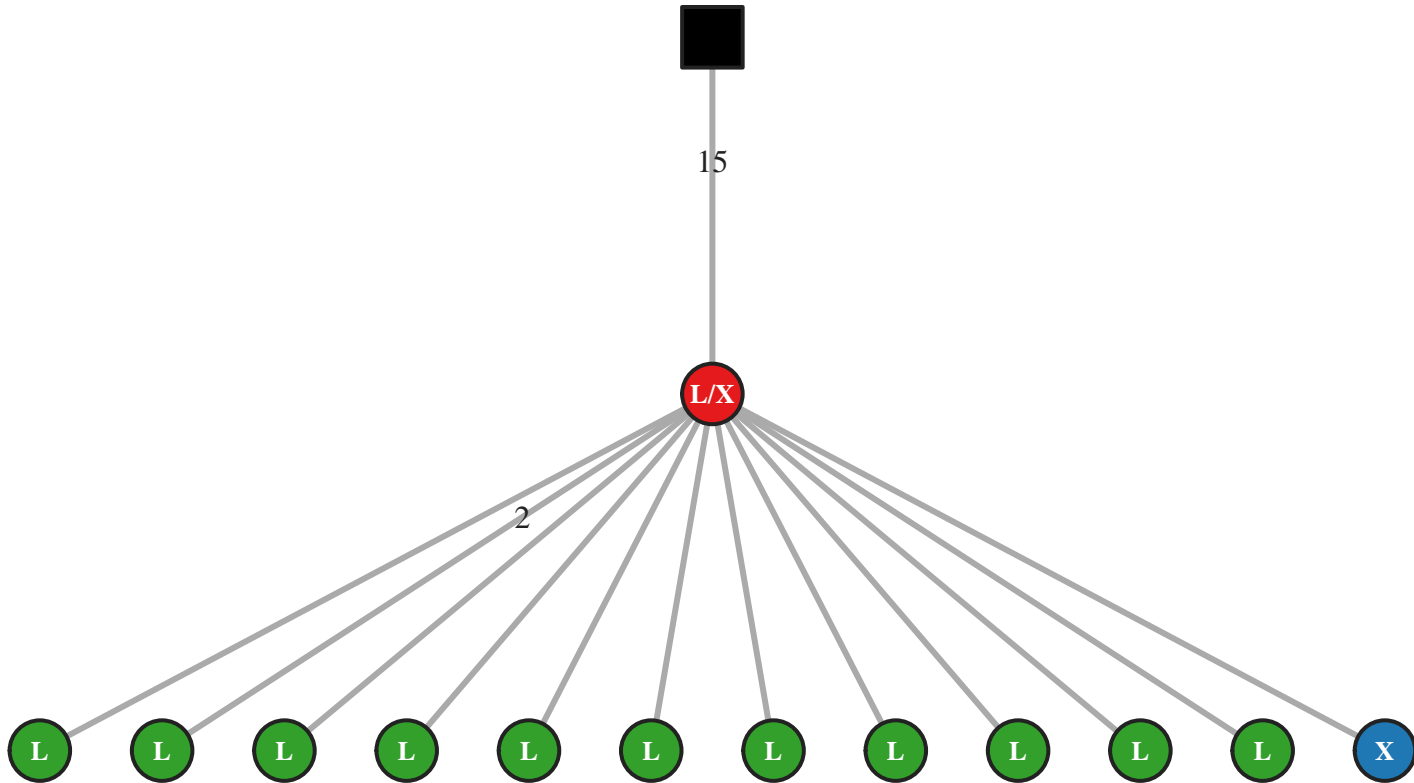
M3 IgG IGHV3-7/J4 54bp (3702)



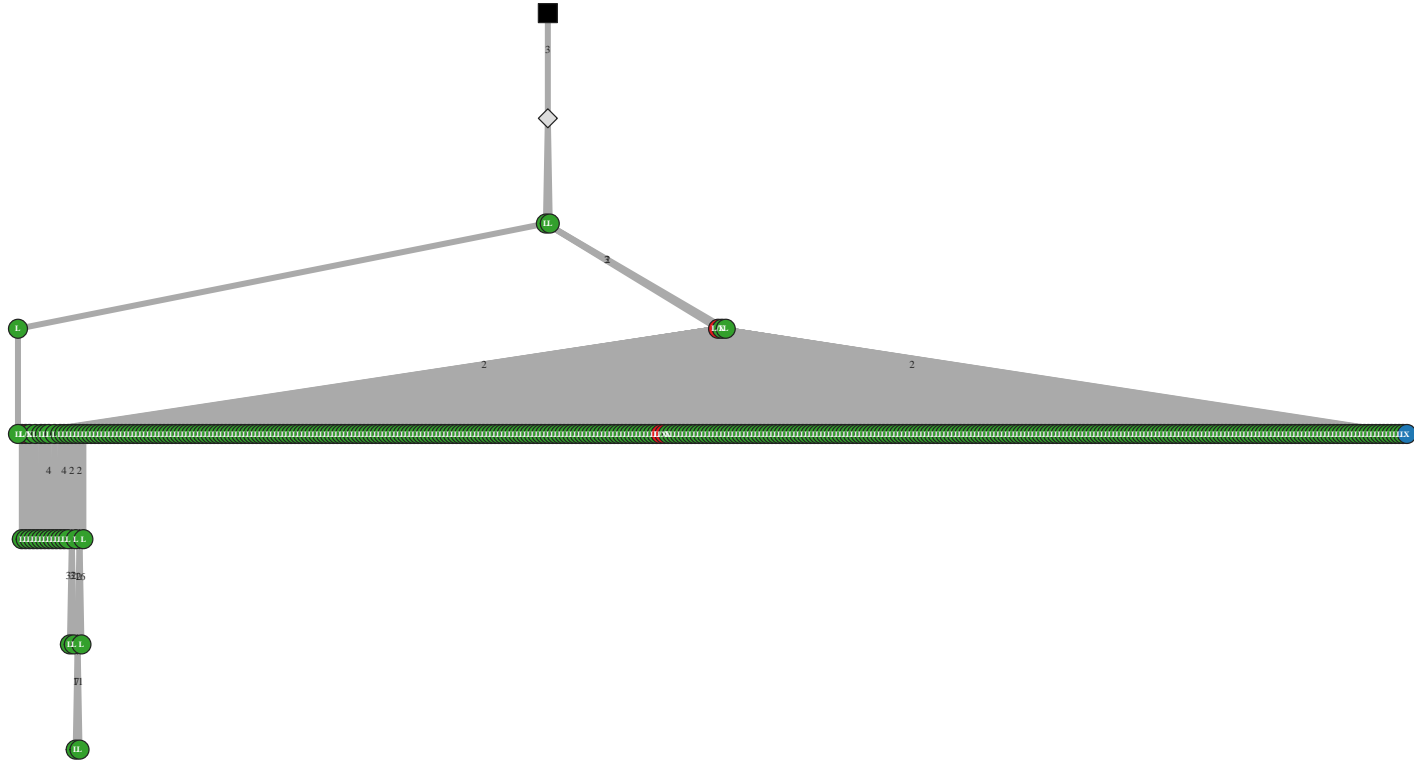
M3 IgG IGHV3-7/J4 54bp (3703)



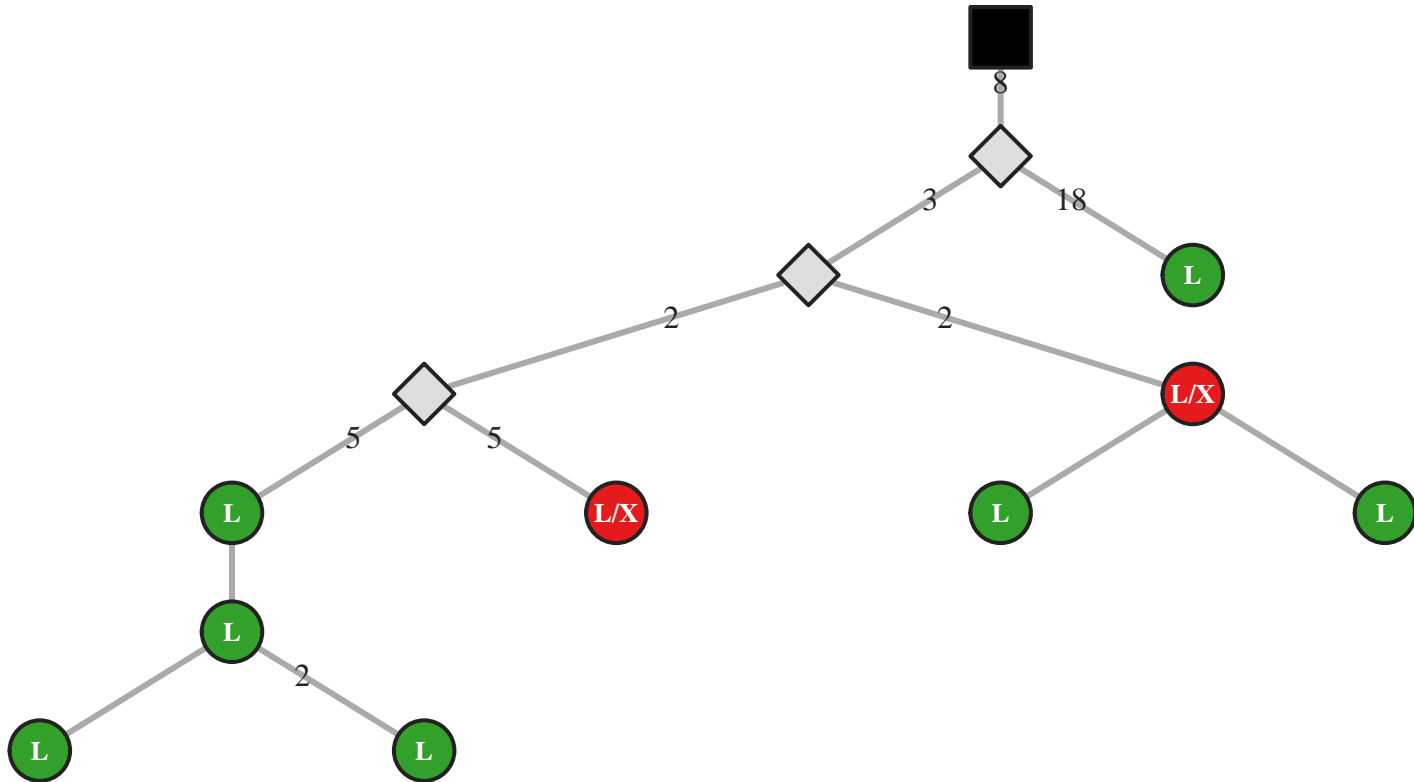
M3 IgG IGHV3-7/J4 57bp (7591)



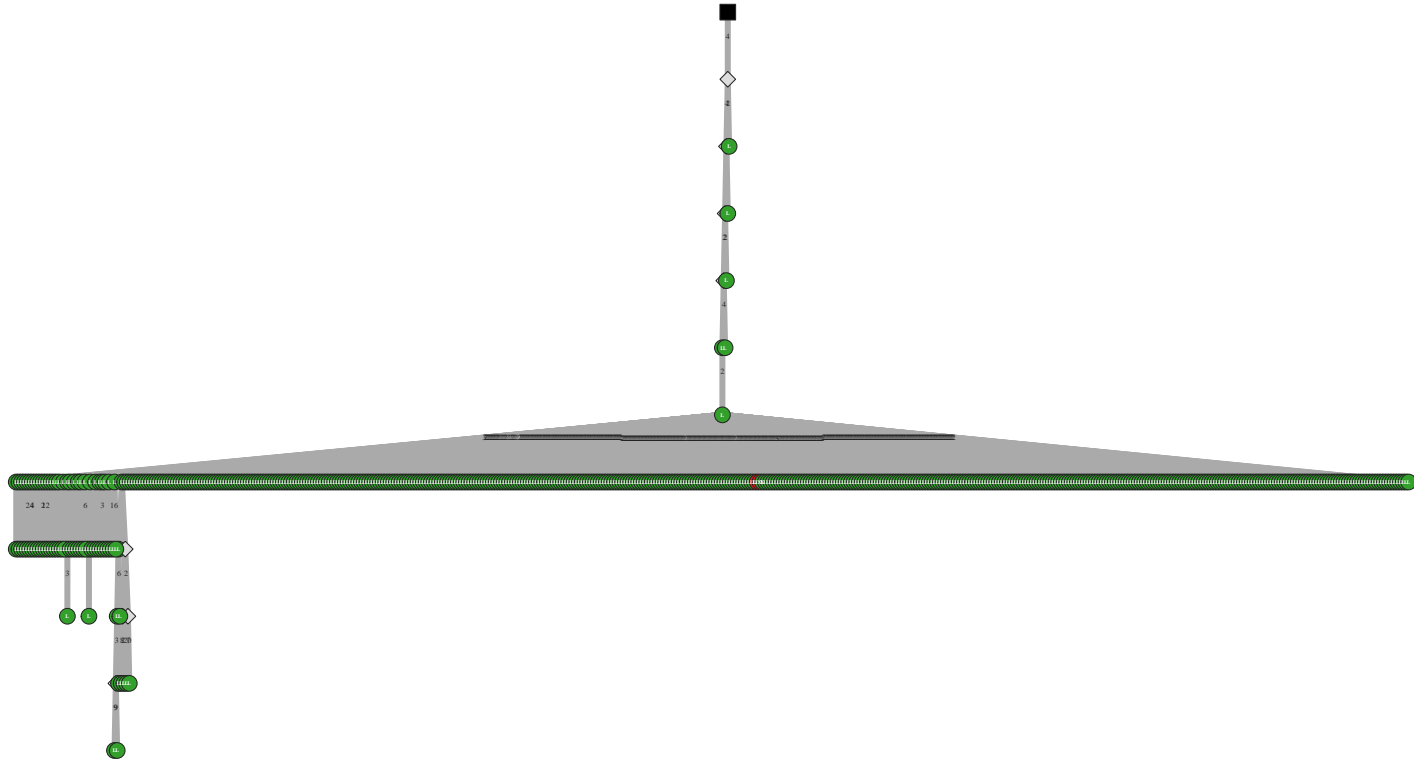
M3 IgG IGHV3-7/J5 24bp (7556)



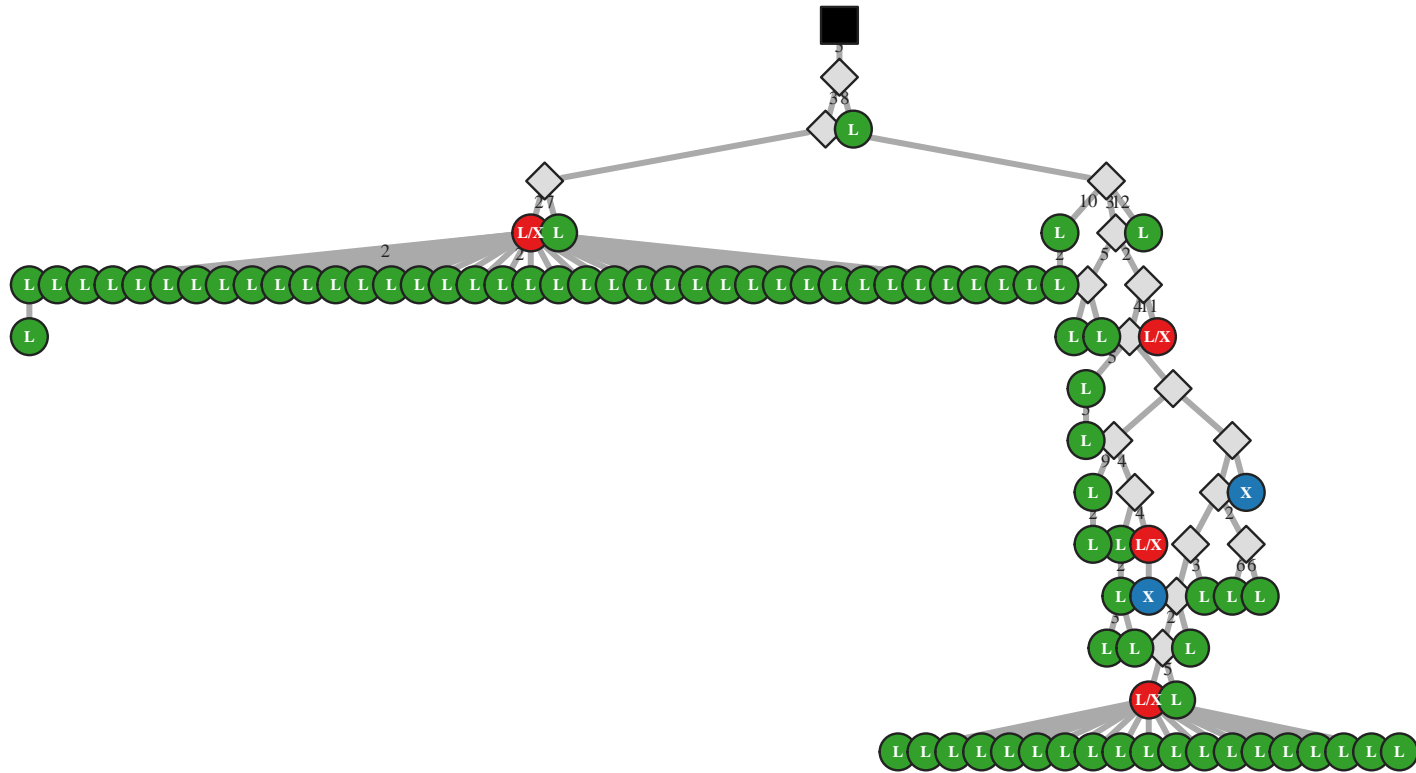
M3 IgG IGHV3-7/J5 24bp (7558)



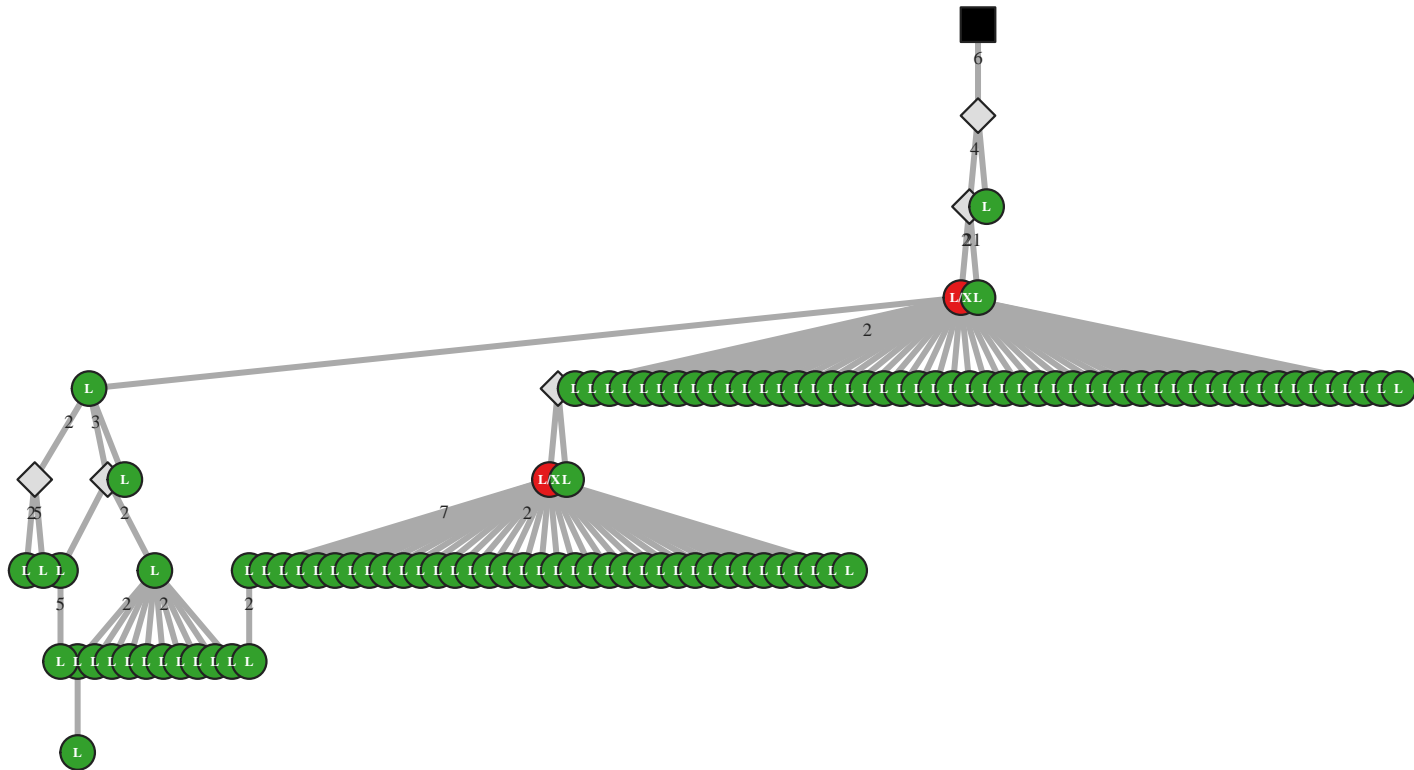
M3 IgG IGHV3-7/J5 33bp (11831)



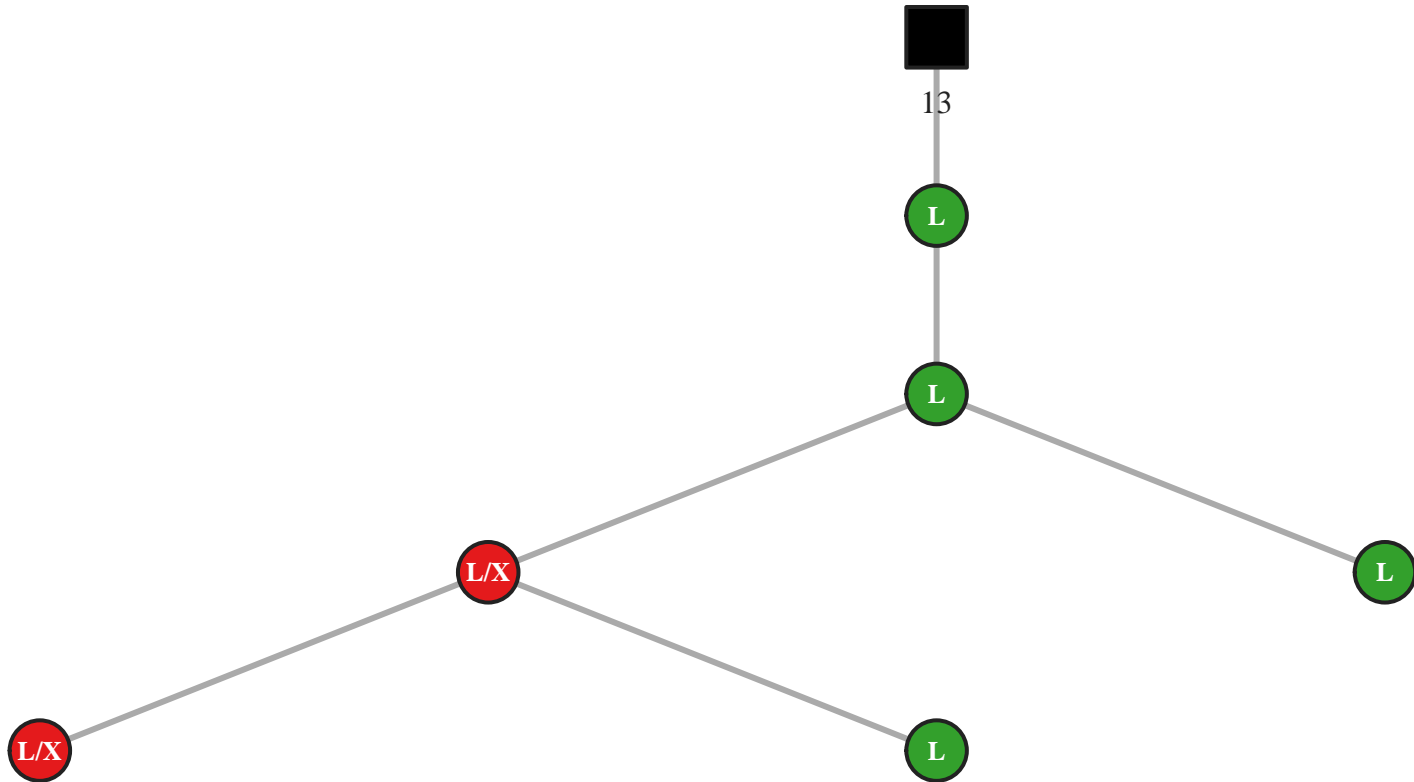
M3 IgG IGHV3-7/J5 42bp (15053)



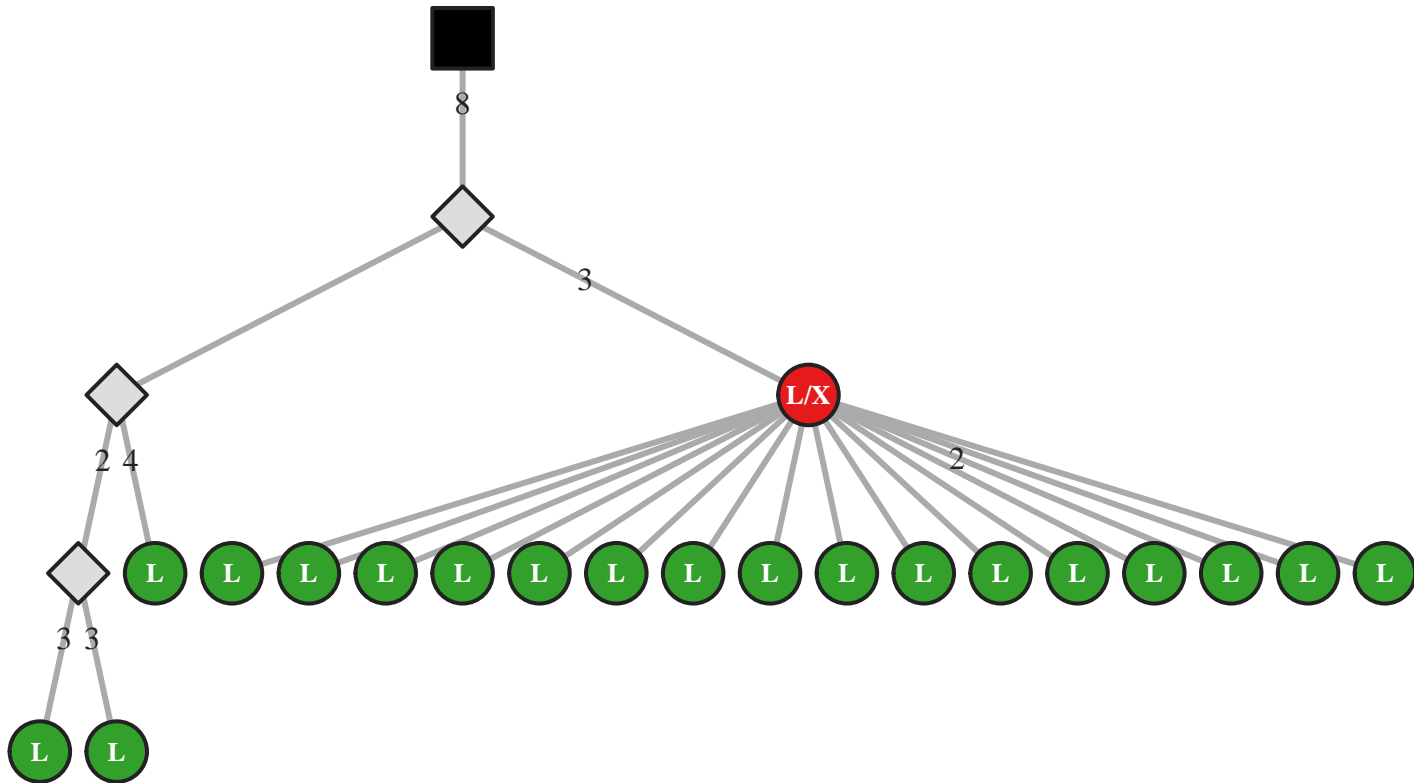
M3 IgG IGHV3-7/J5 48bp (3716)



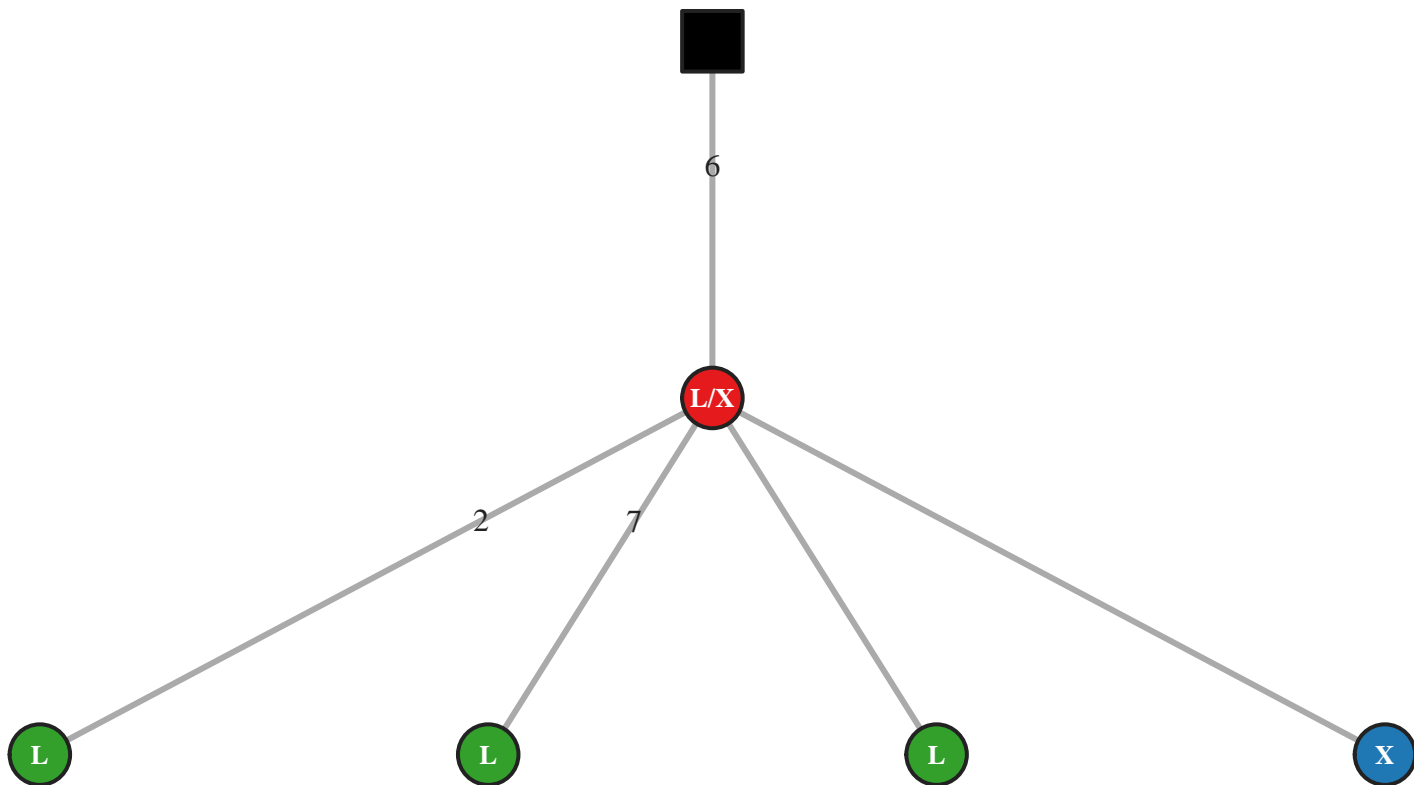
M3 IgG IGHV3-7/J5 48bp (3720)



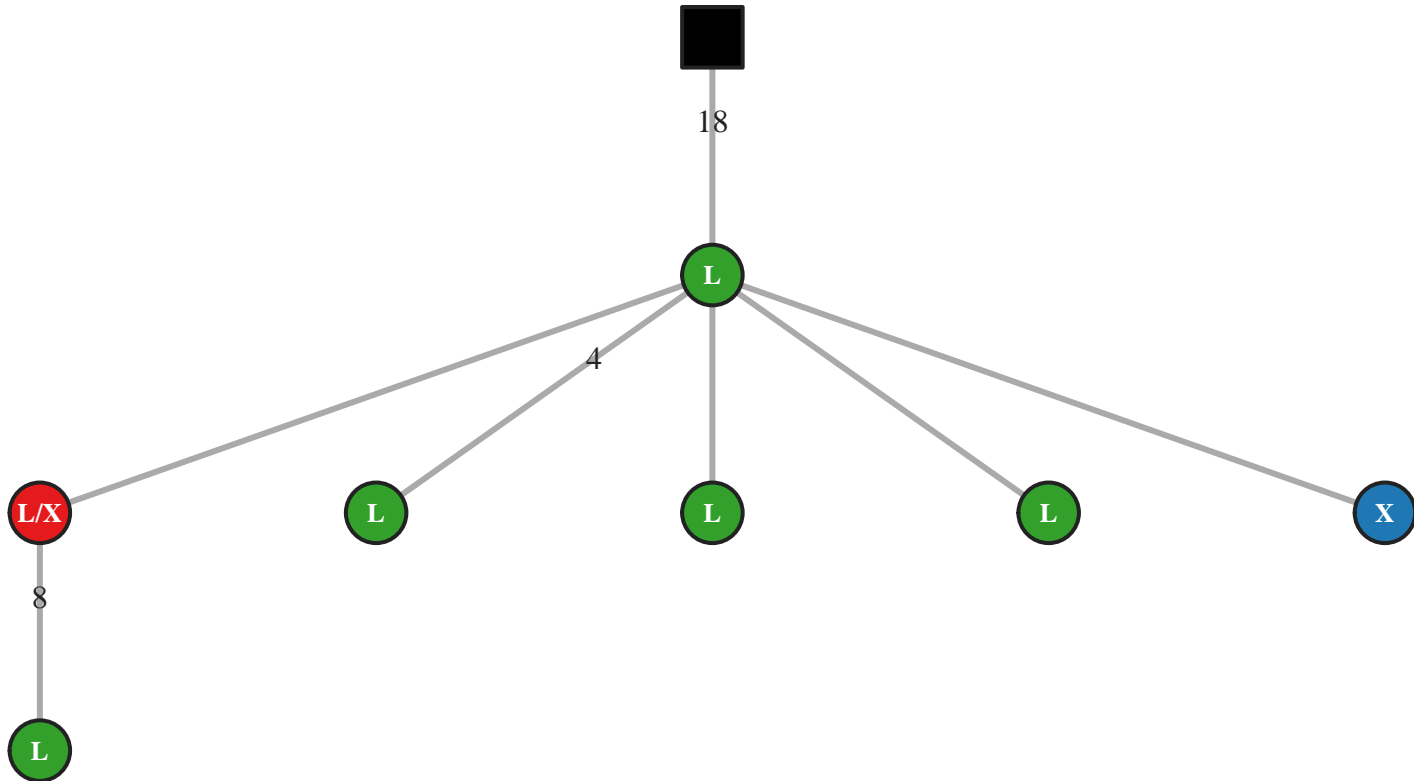
M3 IgG IGHV3-7/J5 75bp (7608)



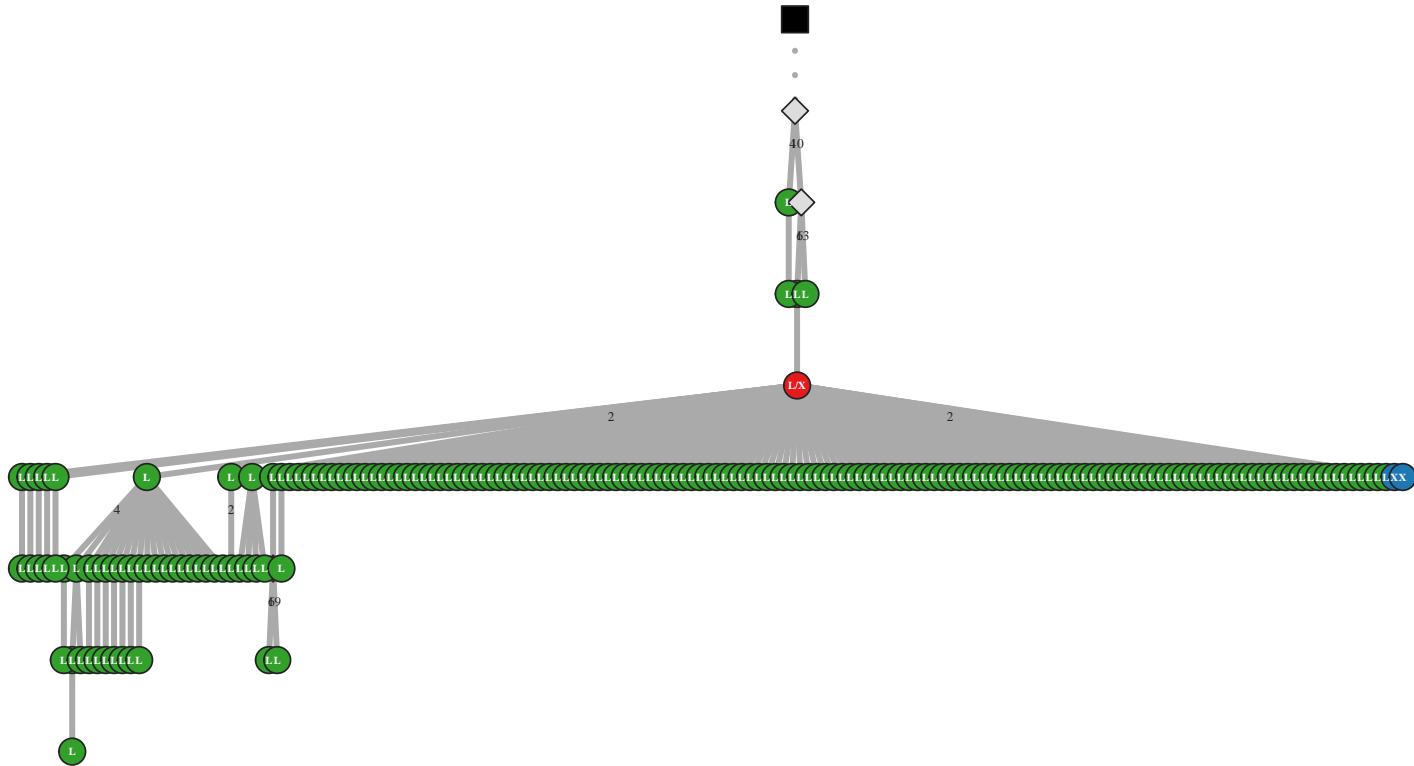
M3 IgG IGHV3-7/J6 60bp (11840)



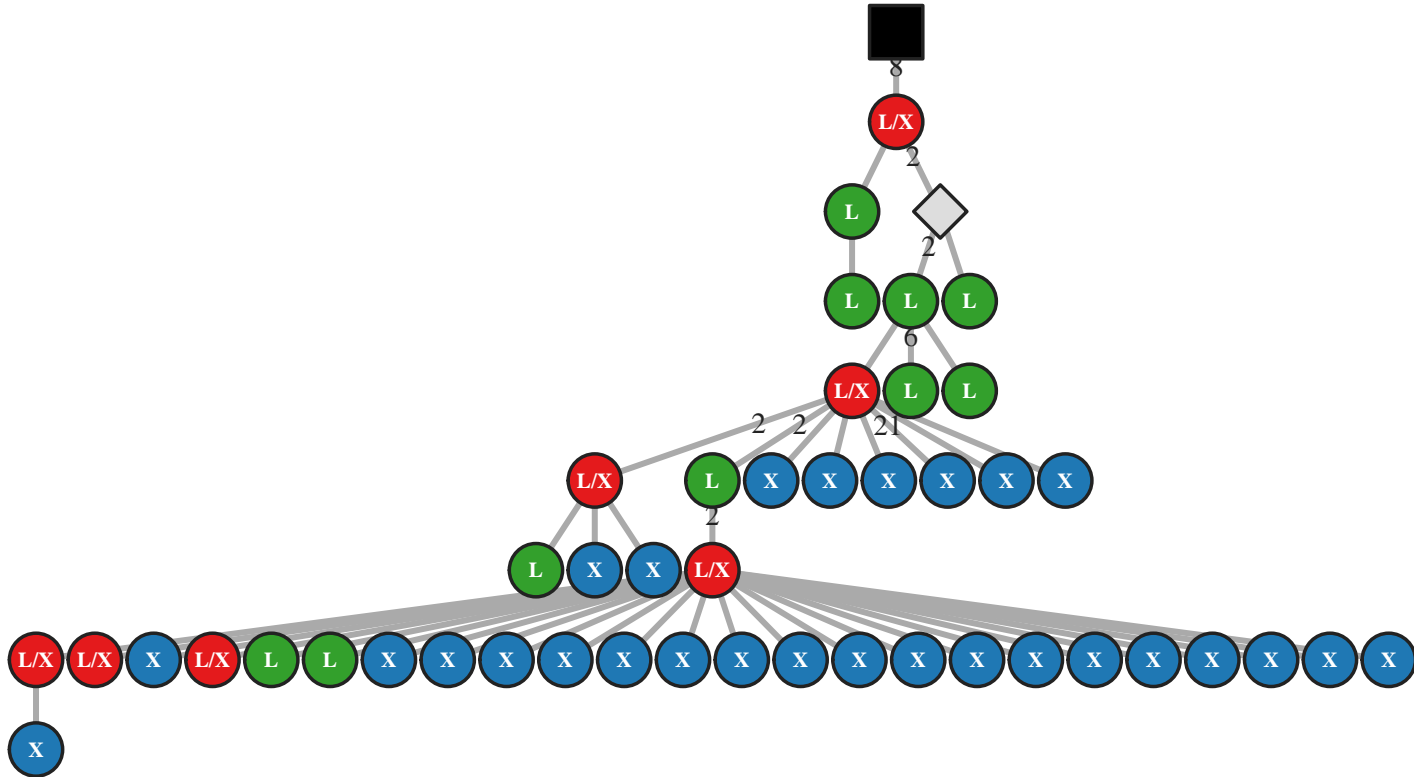
M3 IgG IGHV3-7/J6 66bp (3737)



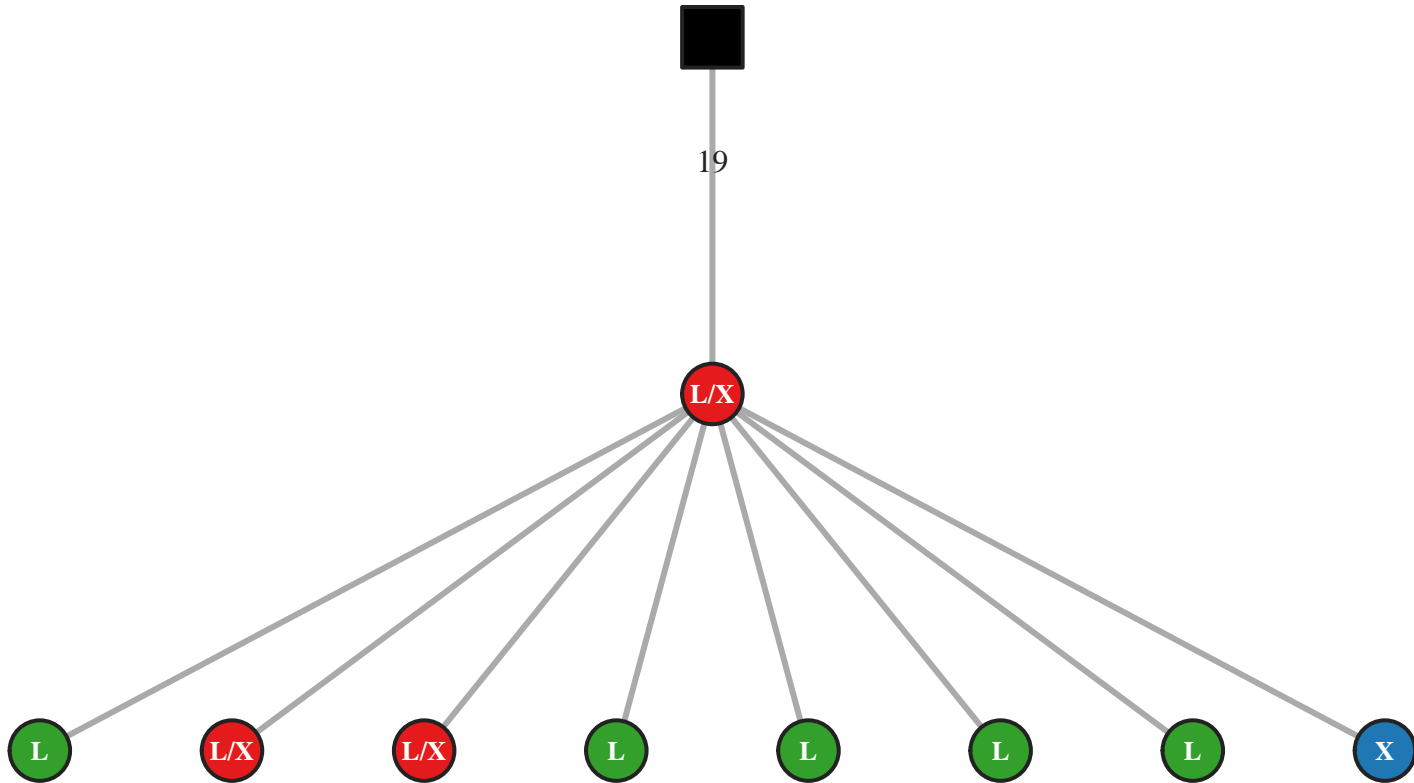
M3 IgG IGHV3-7/J6 66bp (3741)



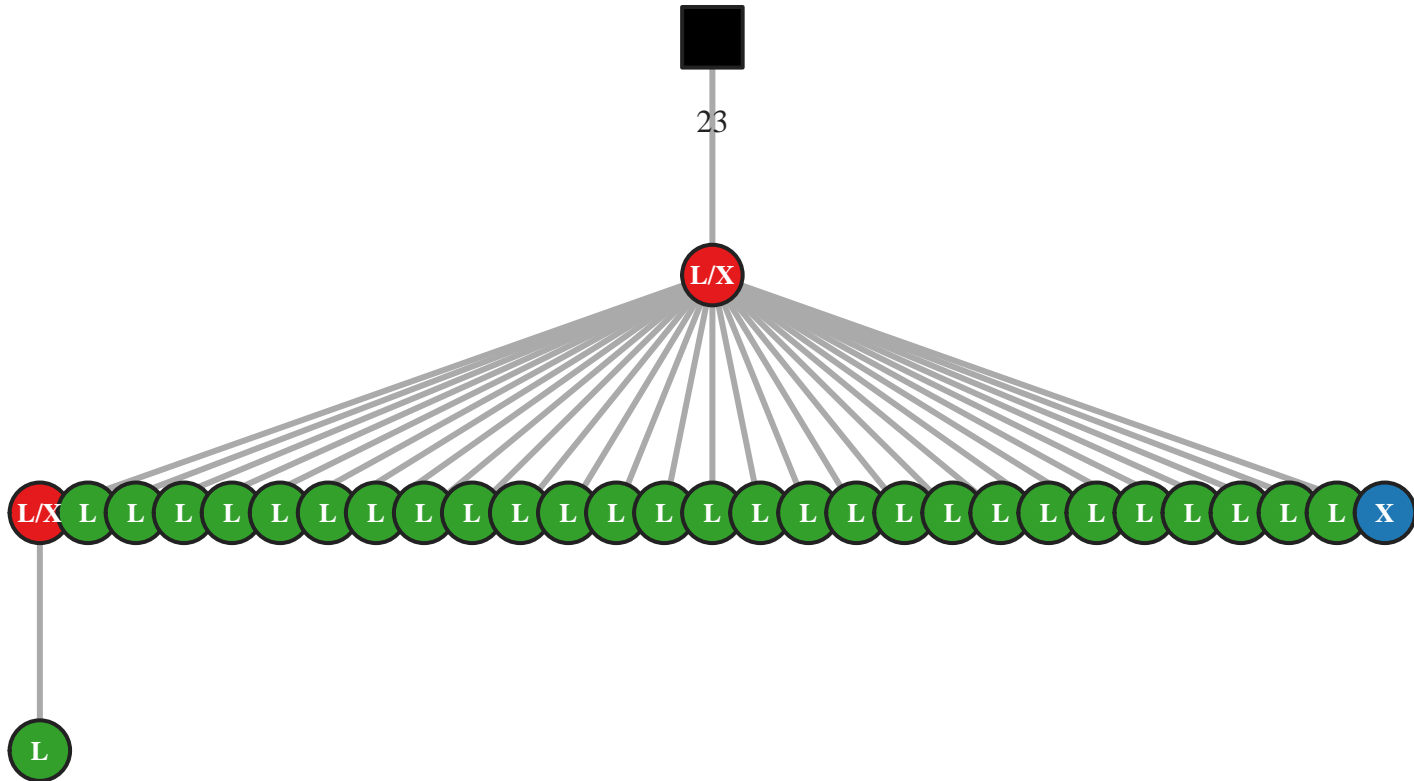
M3 IgG IGHV3-7/J6 66bp (3742)



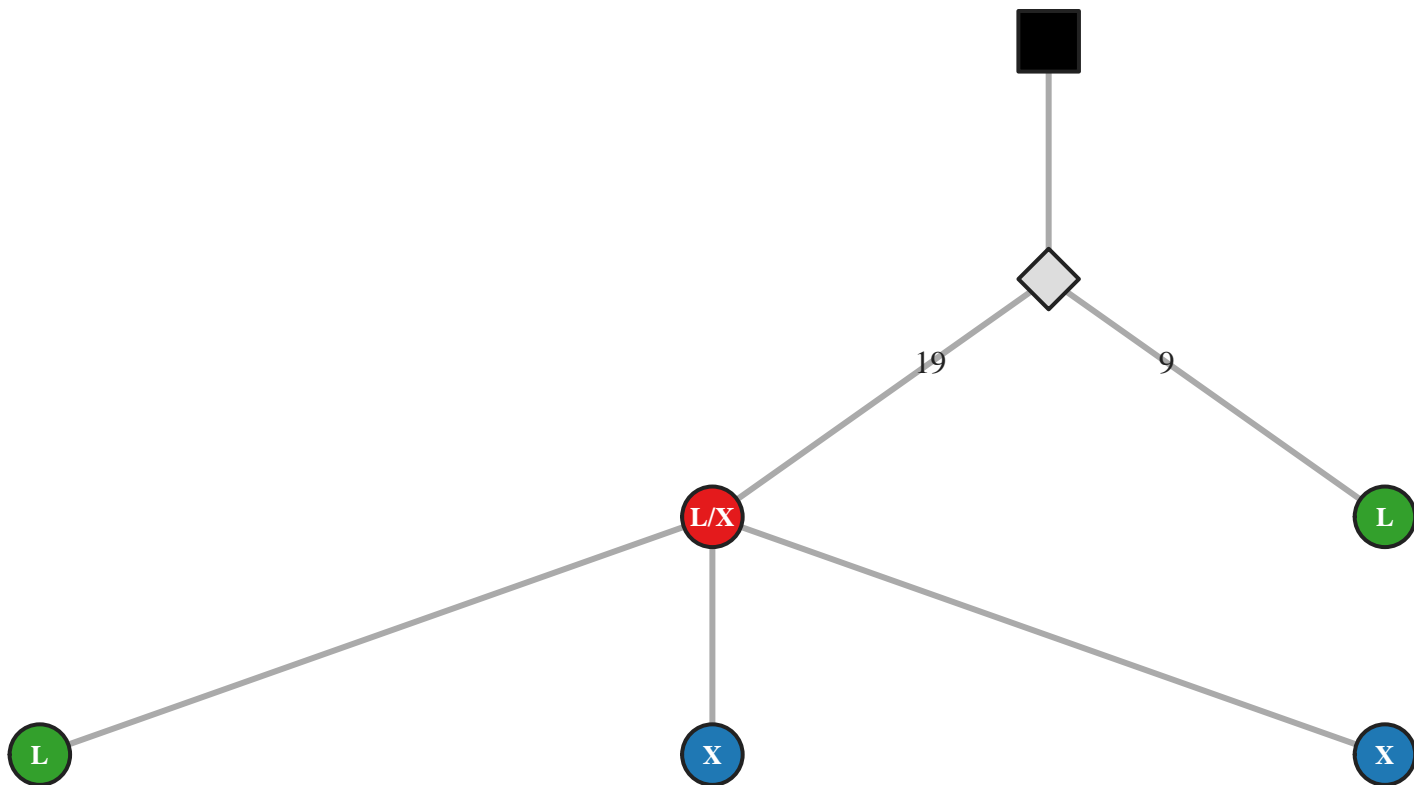
M3 IgG IGHV3-7/J6 66bp (3744)



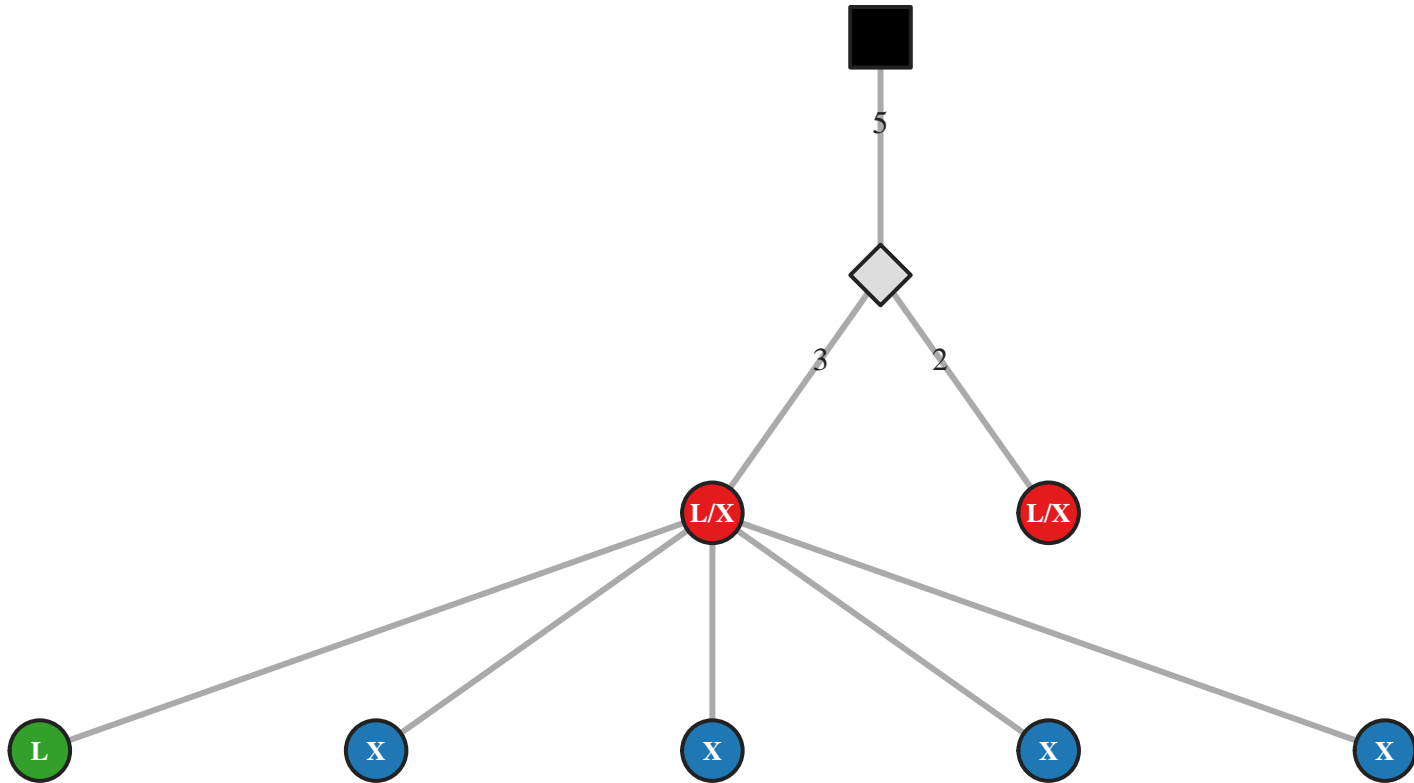
M3 IgG IGHV3-7/J6 66bp (3749)



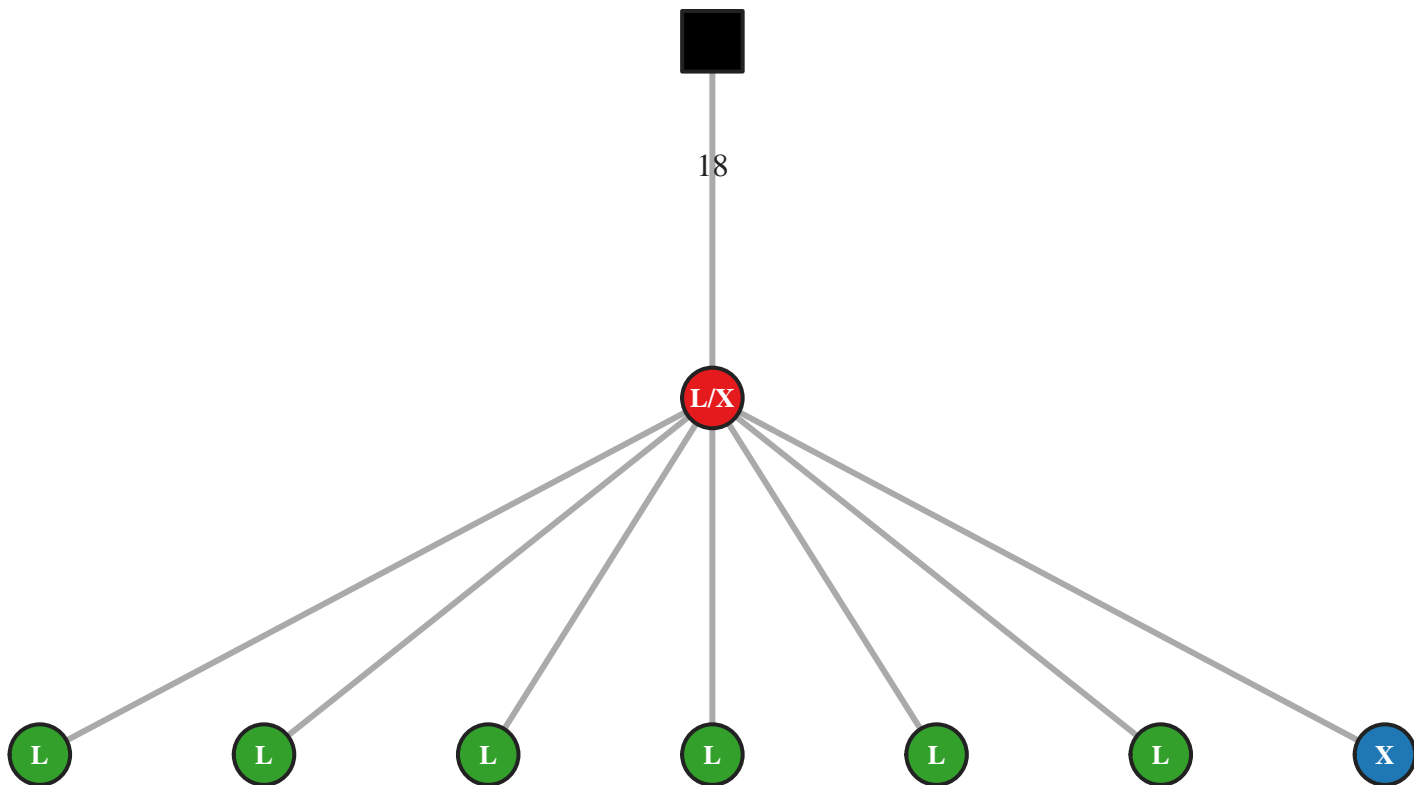
M3 IgG IGHV3-7/J6 75bp (11849)



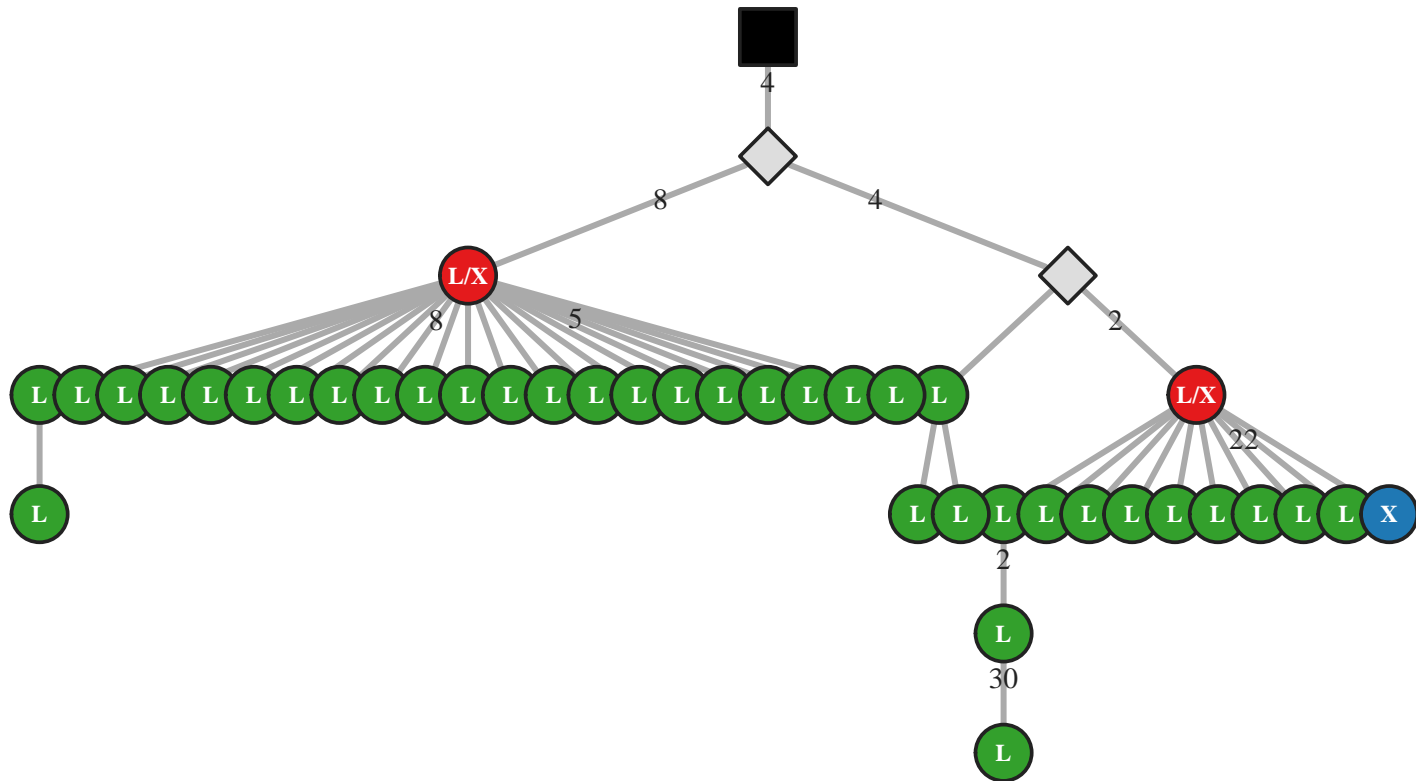
M3 IgG IGHV3-7/J6 75bp (11850)



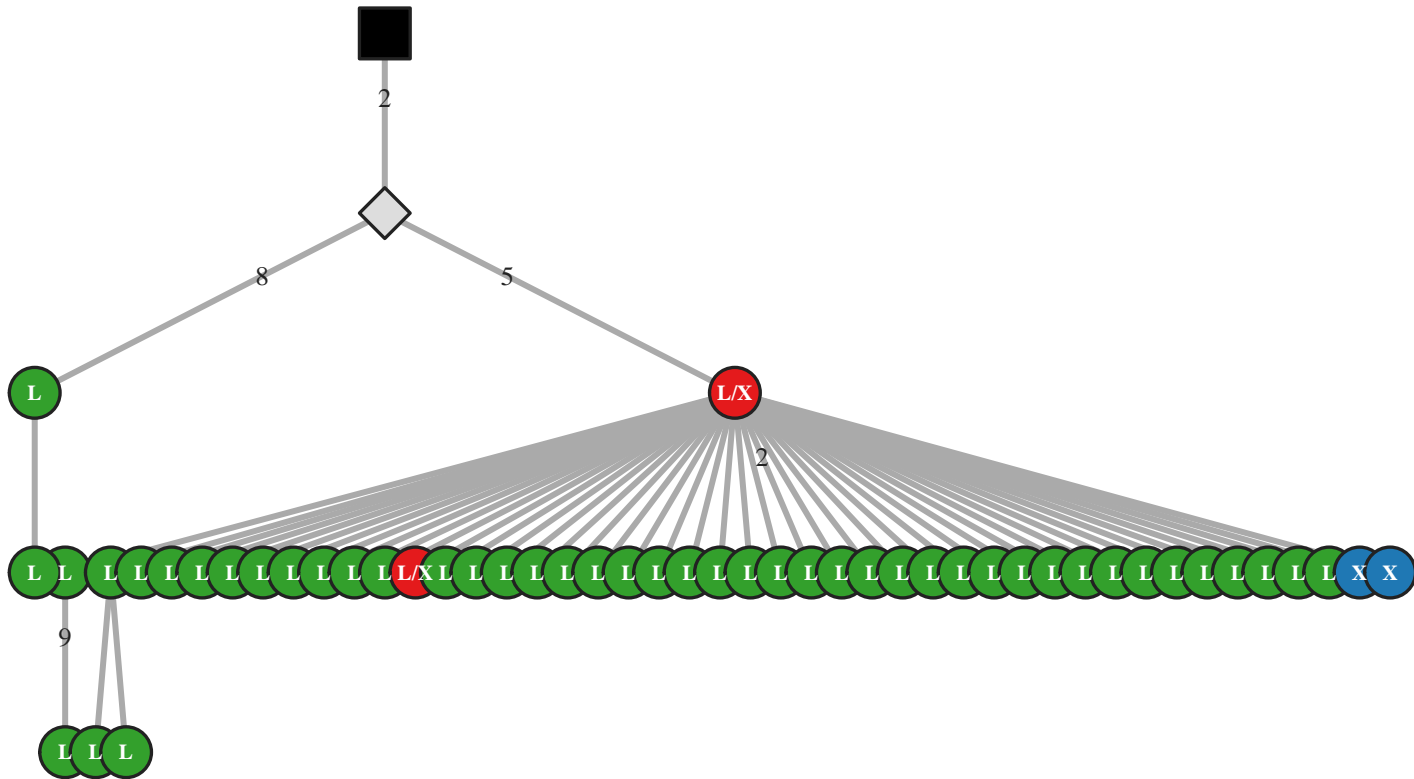
M3 IgG IGHV3-7/J6 75bp (11864)



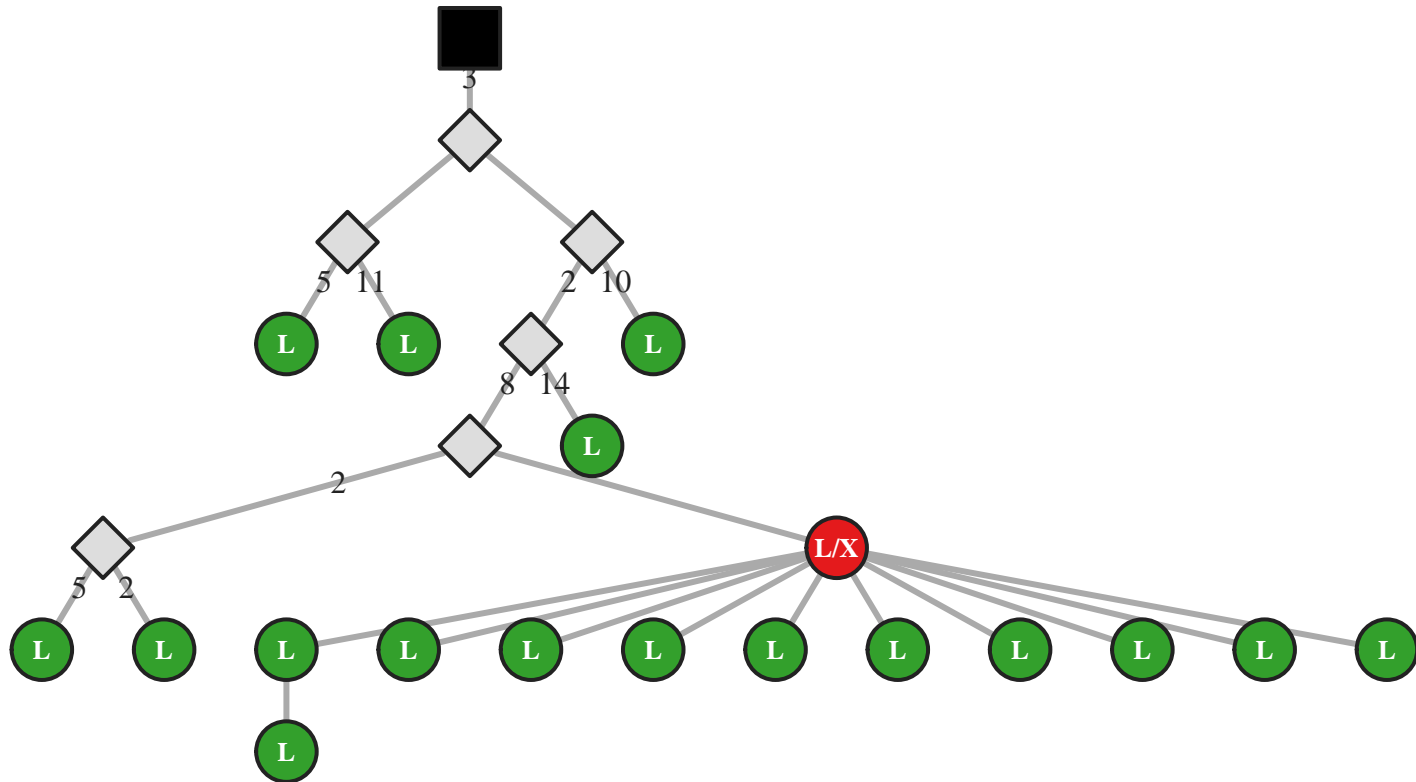
M3 IgG IGHV3-7/J6 75bp (11865)



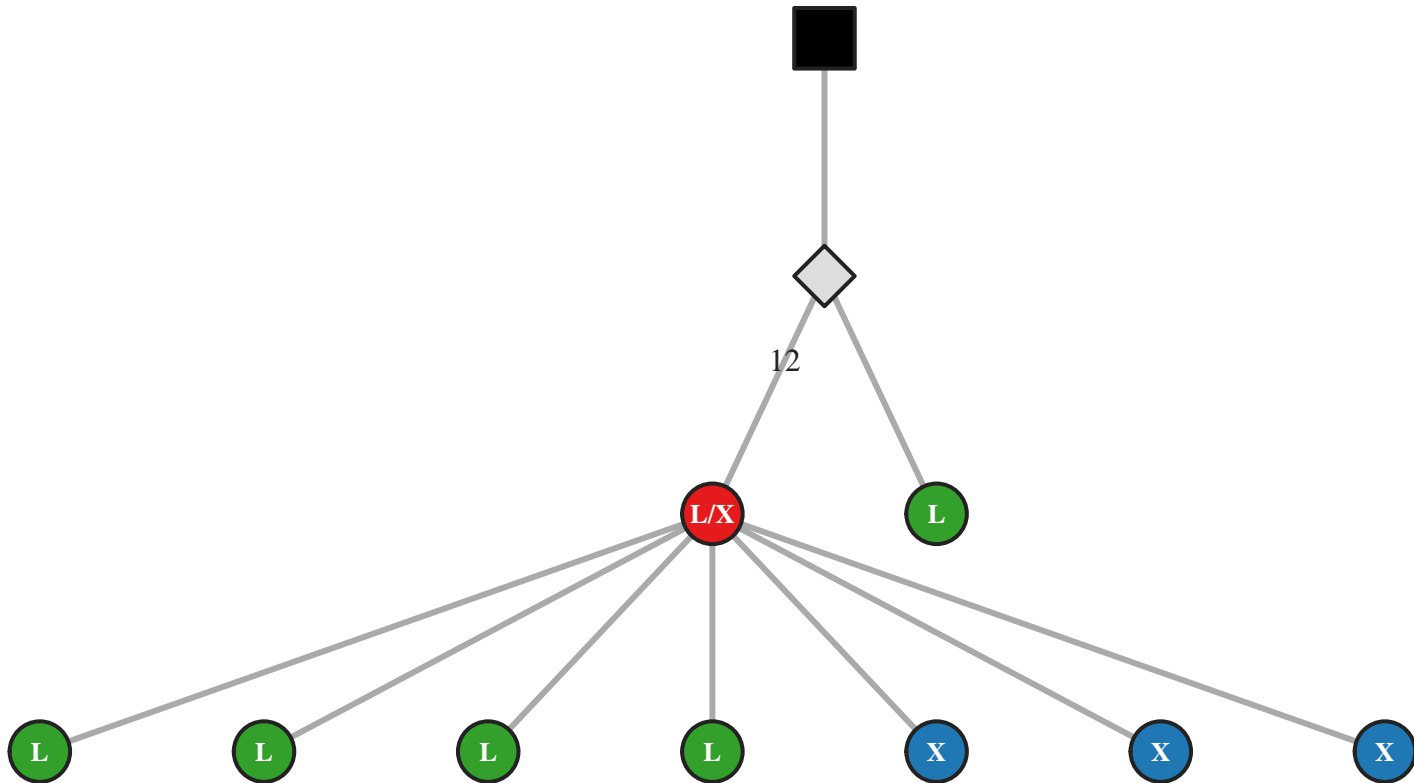
M3 IgG IGHV3-7/J6 75bp (11866)



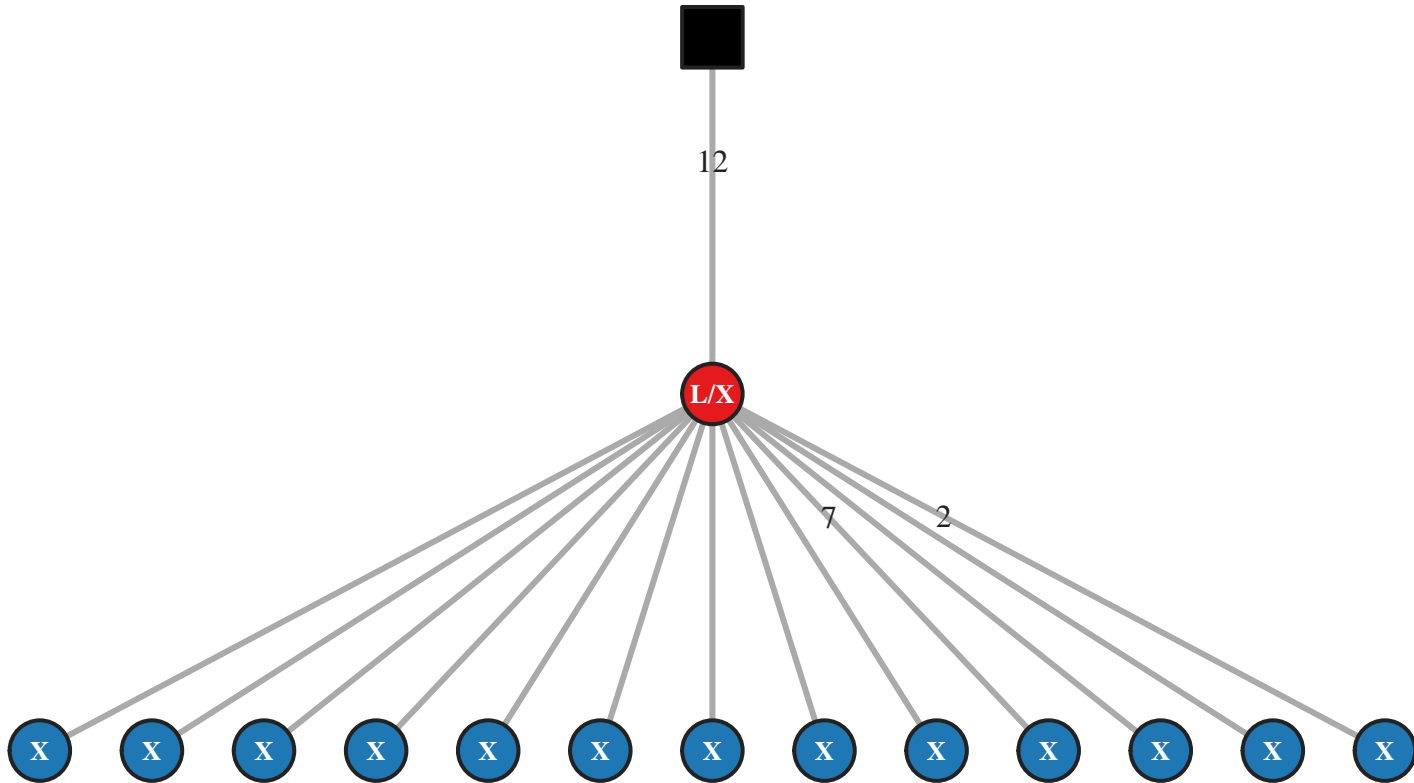
M3 IgG IGHV3-7/J6 75bp (11867)



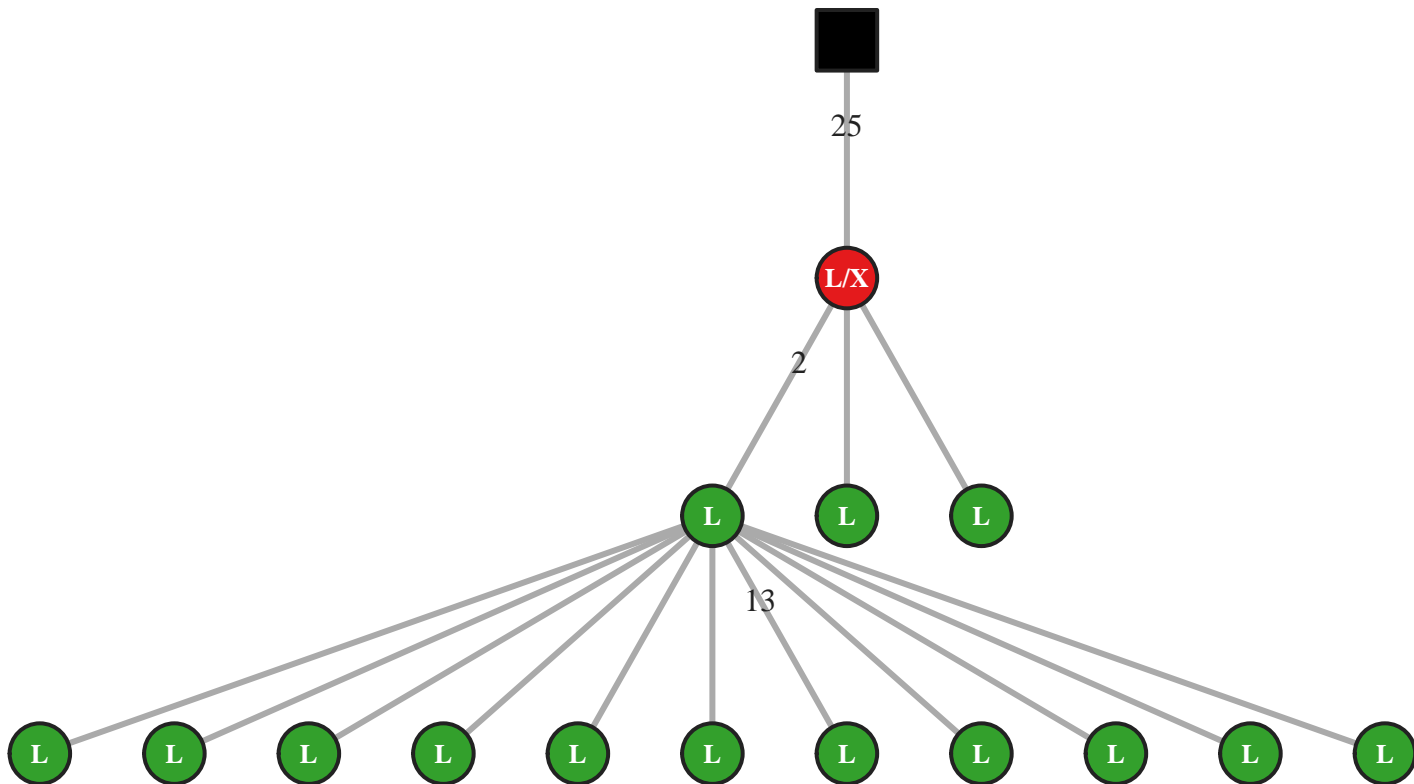
M3 IgG IGHV3-7/J6 75bp (11871)



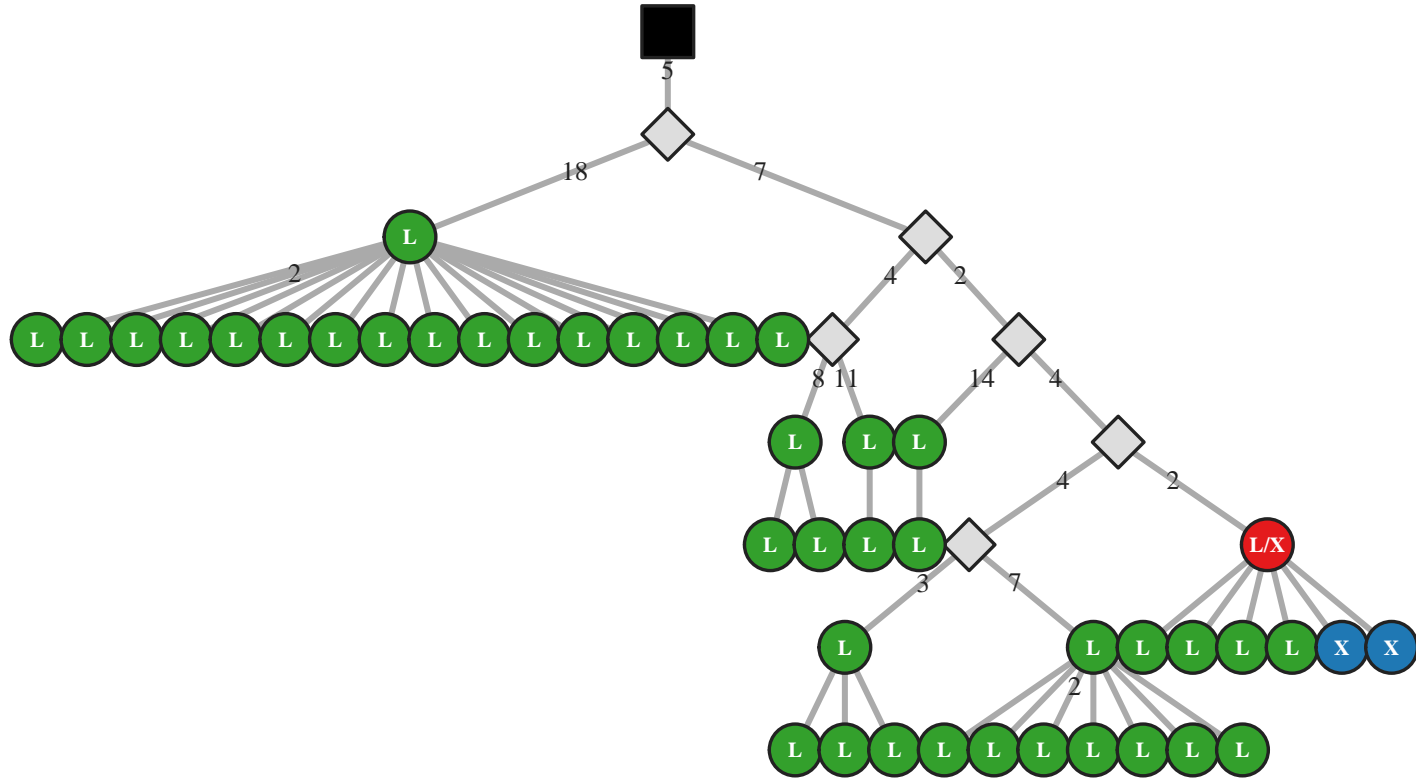
M3 IgG IGHV3-7/J6 78bp (7615)



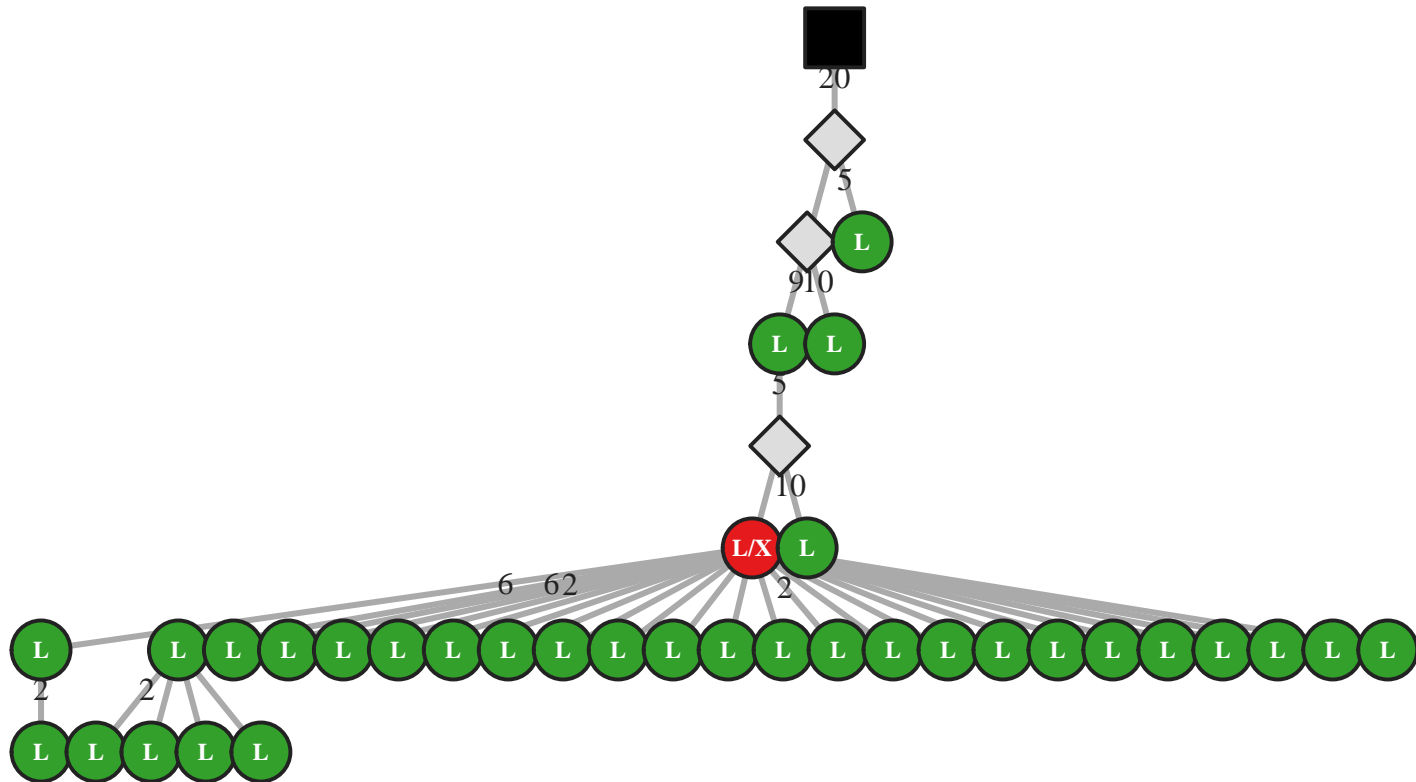
M3 IgG IGHV3-72/J3 54bp (14987)



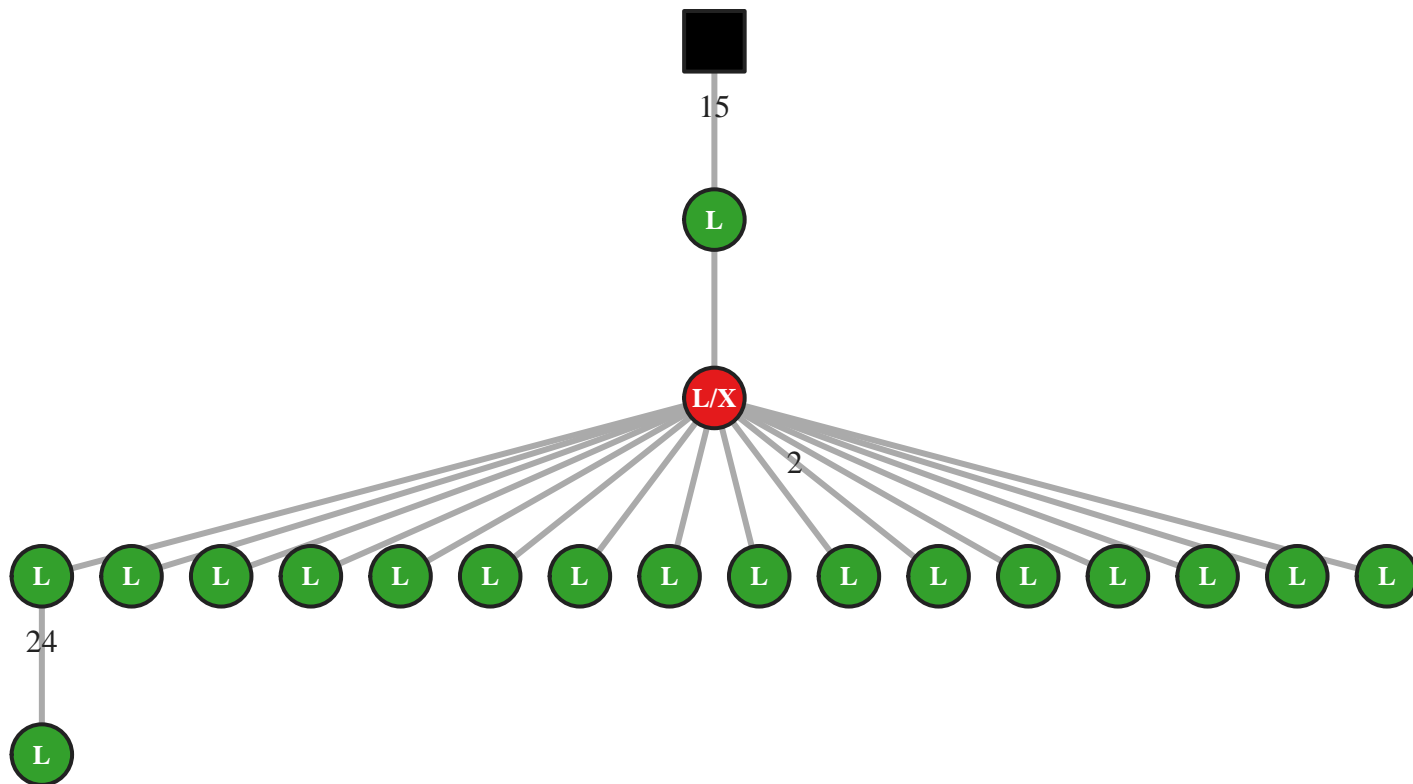
M3 IgG IGHV3-72/J6 39bp (7505)



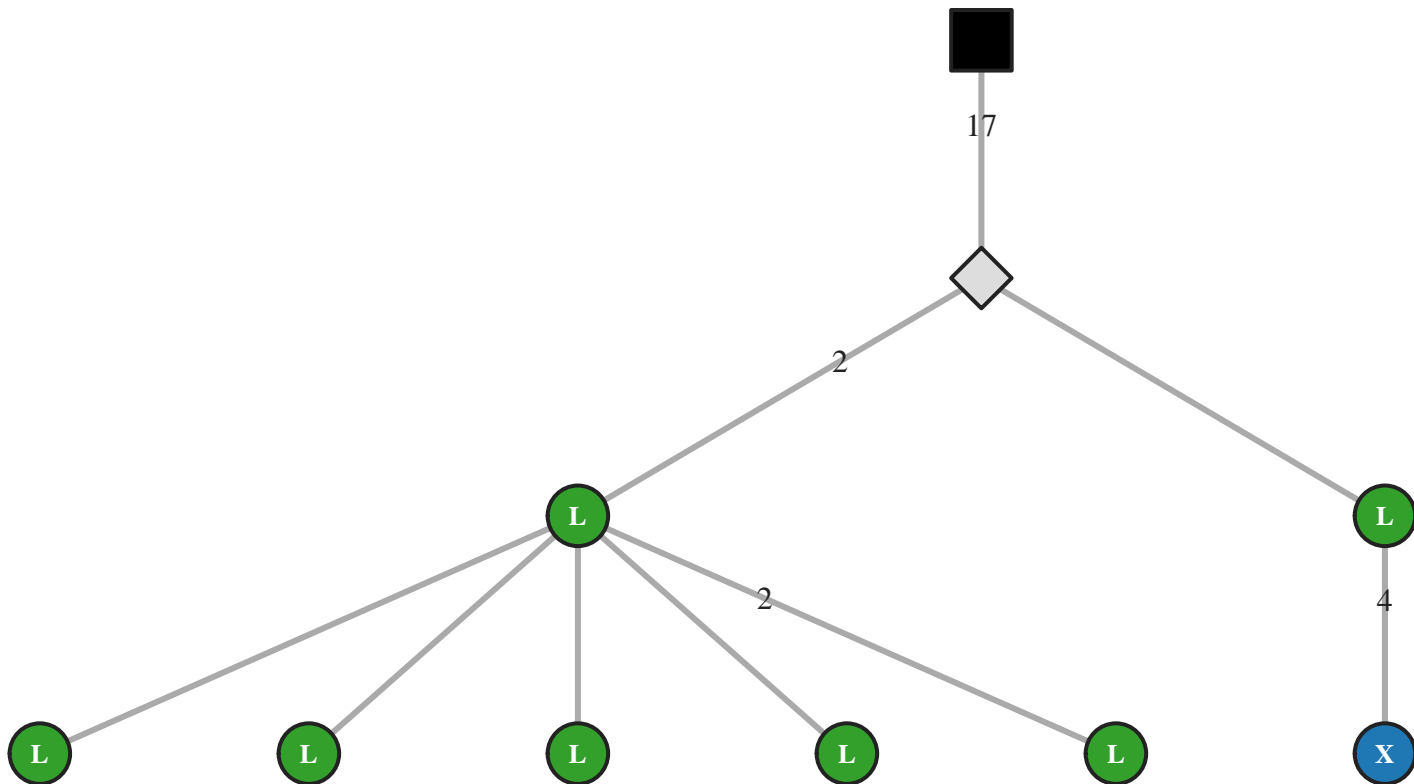
M3 IgG IGHV3-73/J4 39bp (3643)



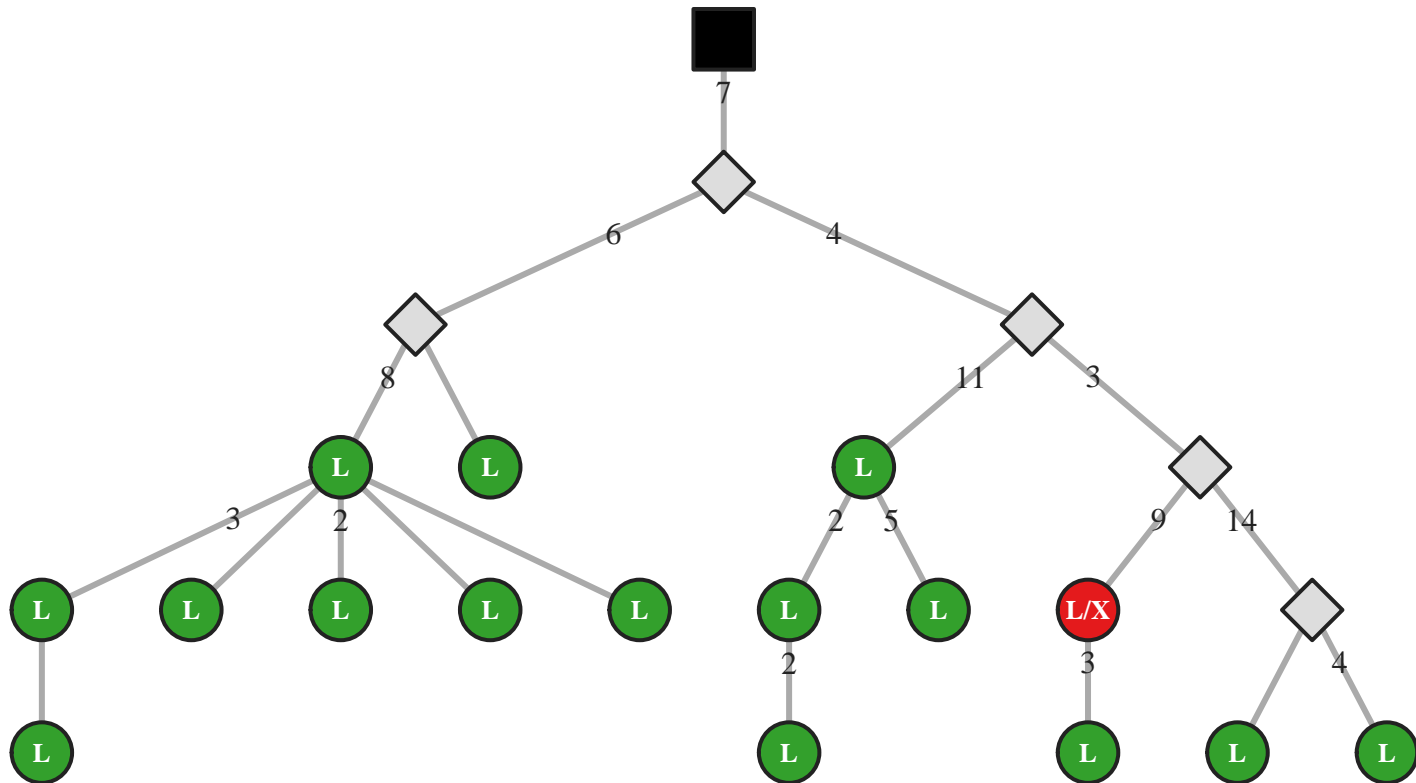
M3 IgG IGHV3-73/J4 39bp (3646)



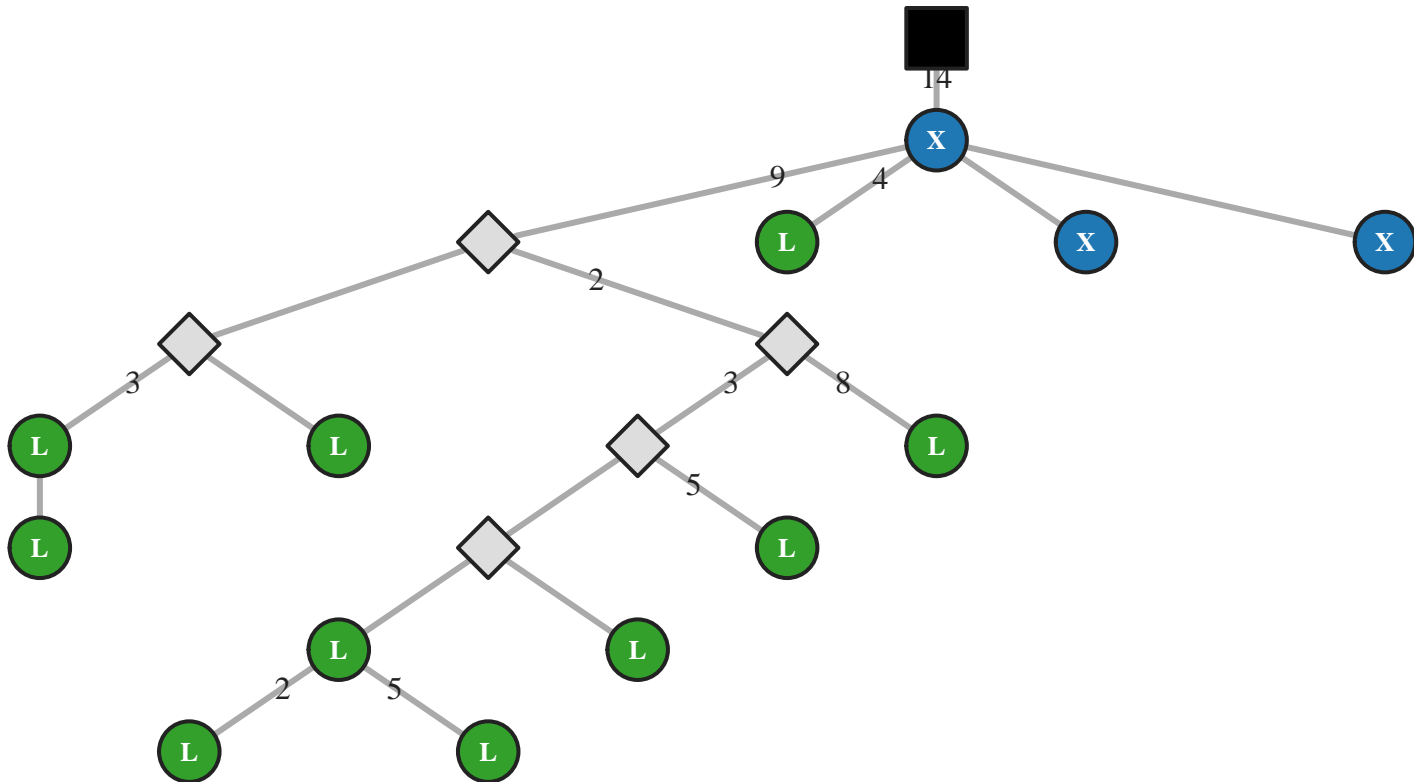
M3 IgG IGHV3-73/J5 60bp (7515)



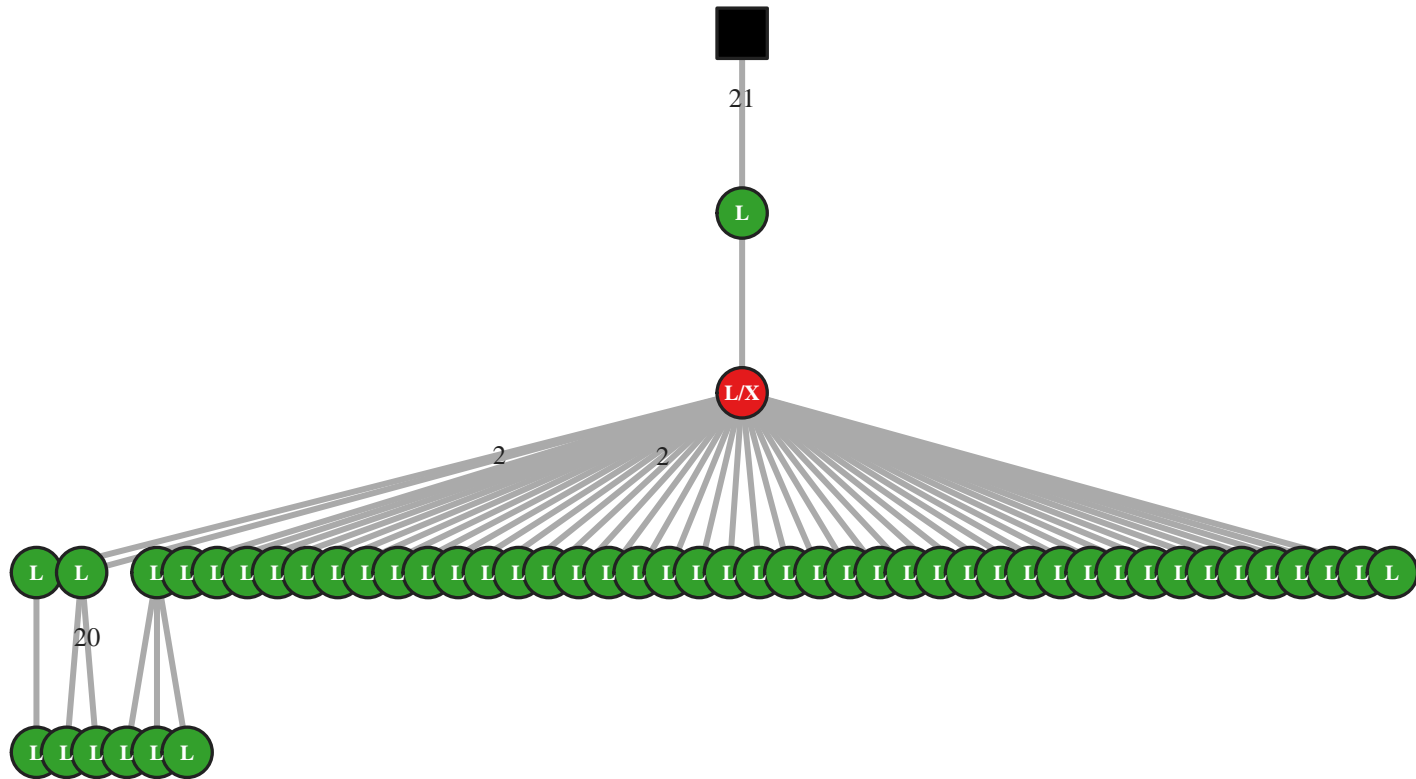
M3 IgG IGHV3-74/J4 36bp (3652)



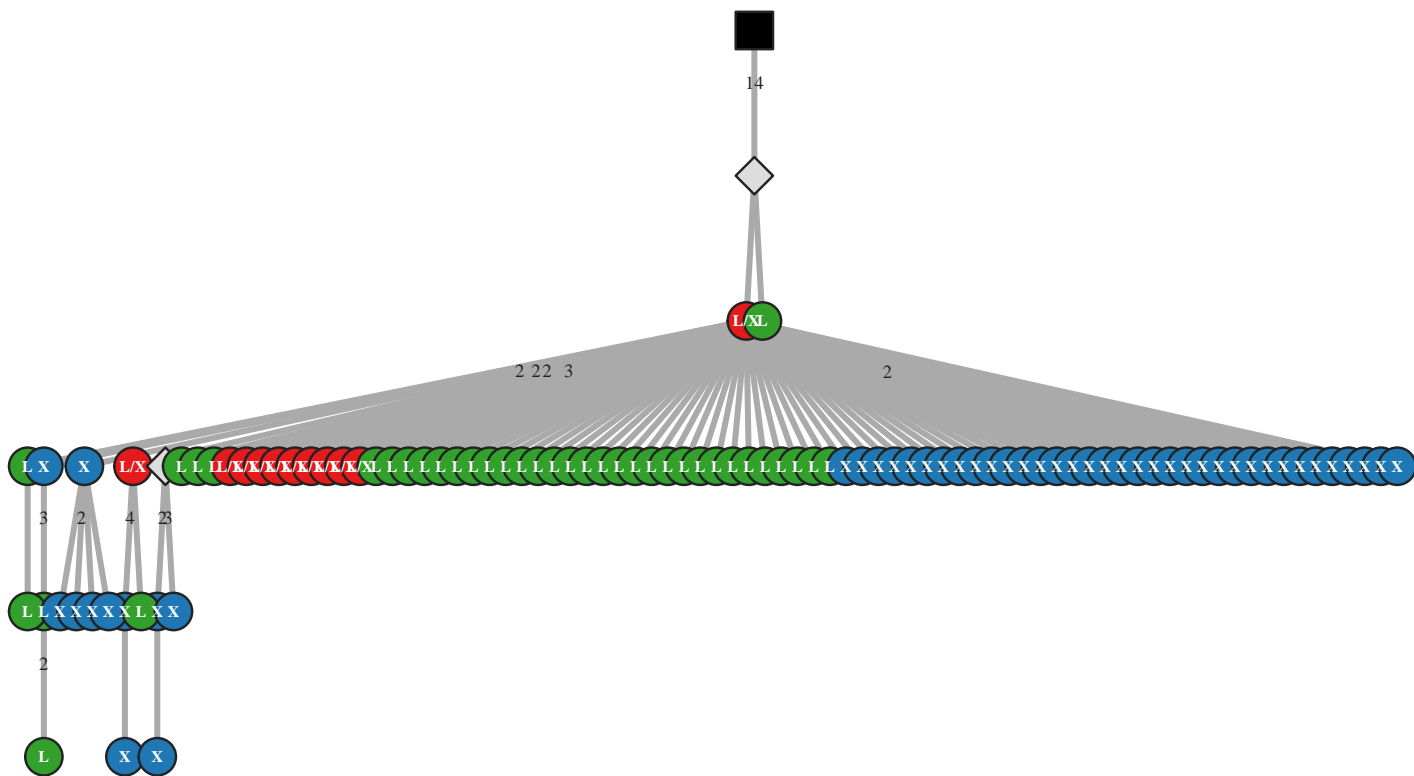
M3 IgG IGHV3-74/J4 48bp (7521)



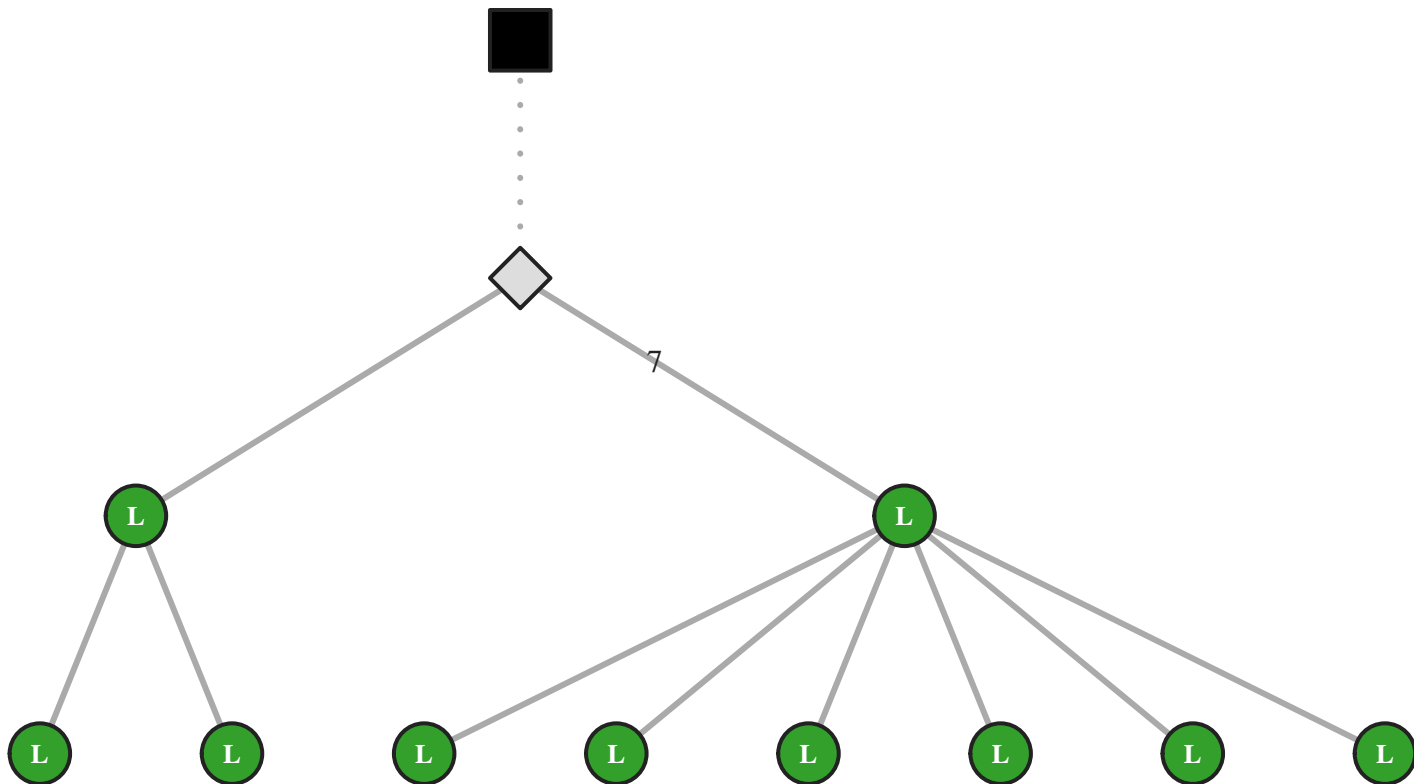
M3 IgA IGHV3-9/J2 51bp (14312)



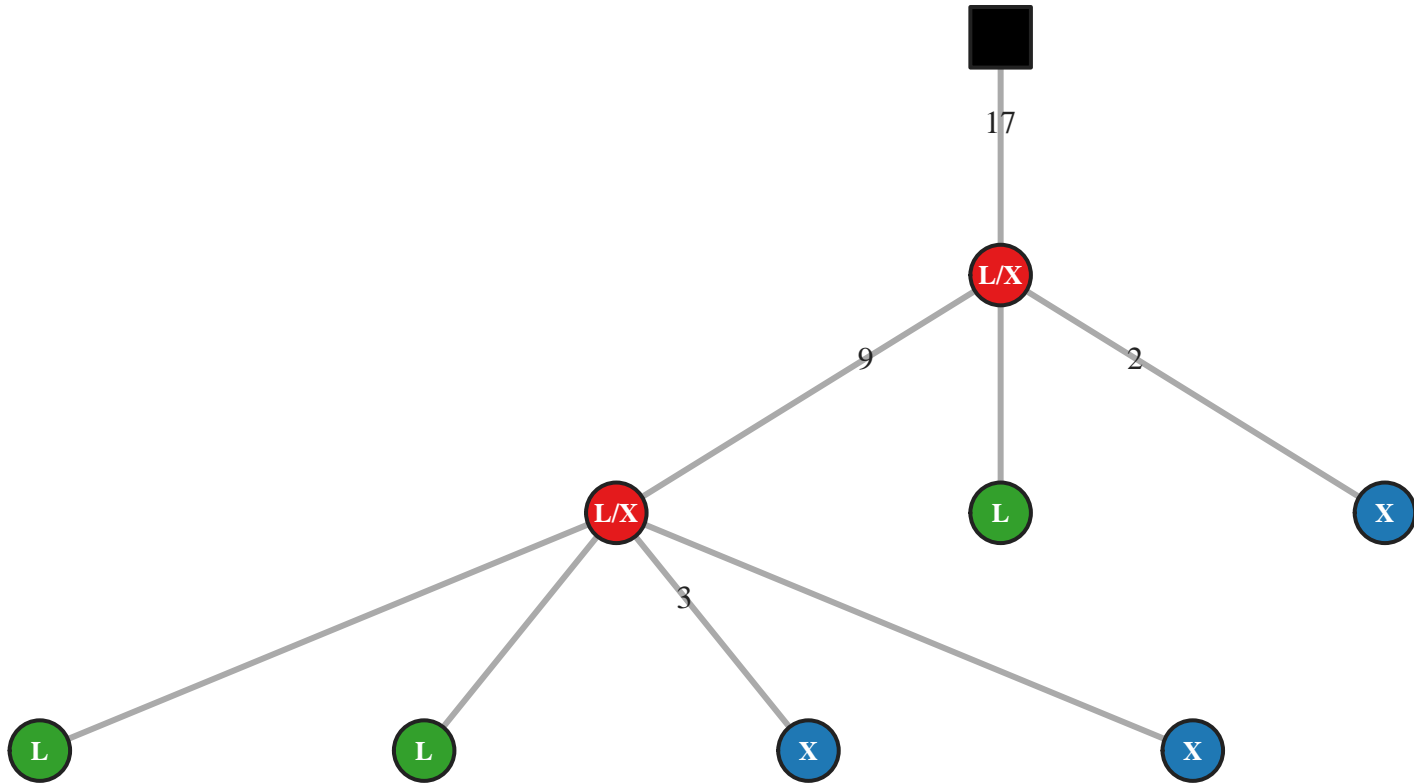
M3 IgG IGHV3-9/J4 45bp (15086)



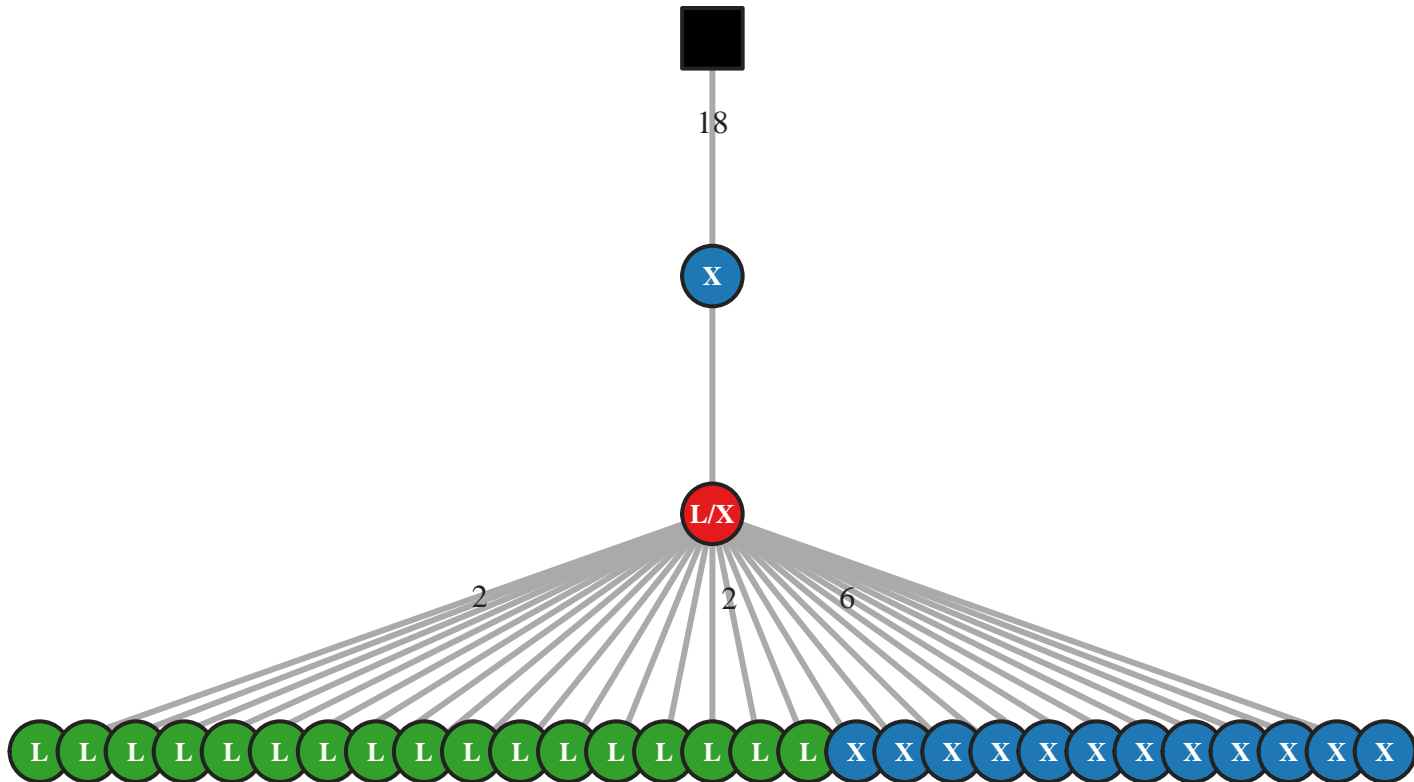
M3 IgM IGHV3-9/J4 48bp (13760)



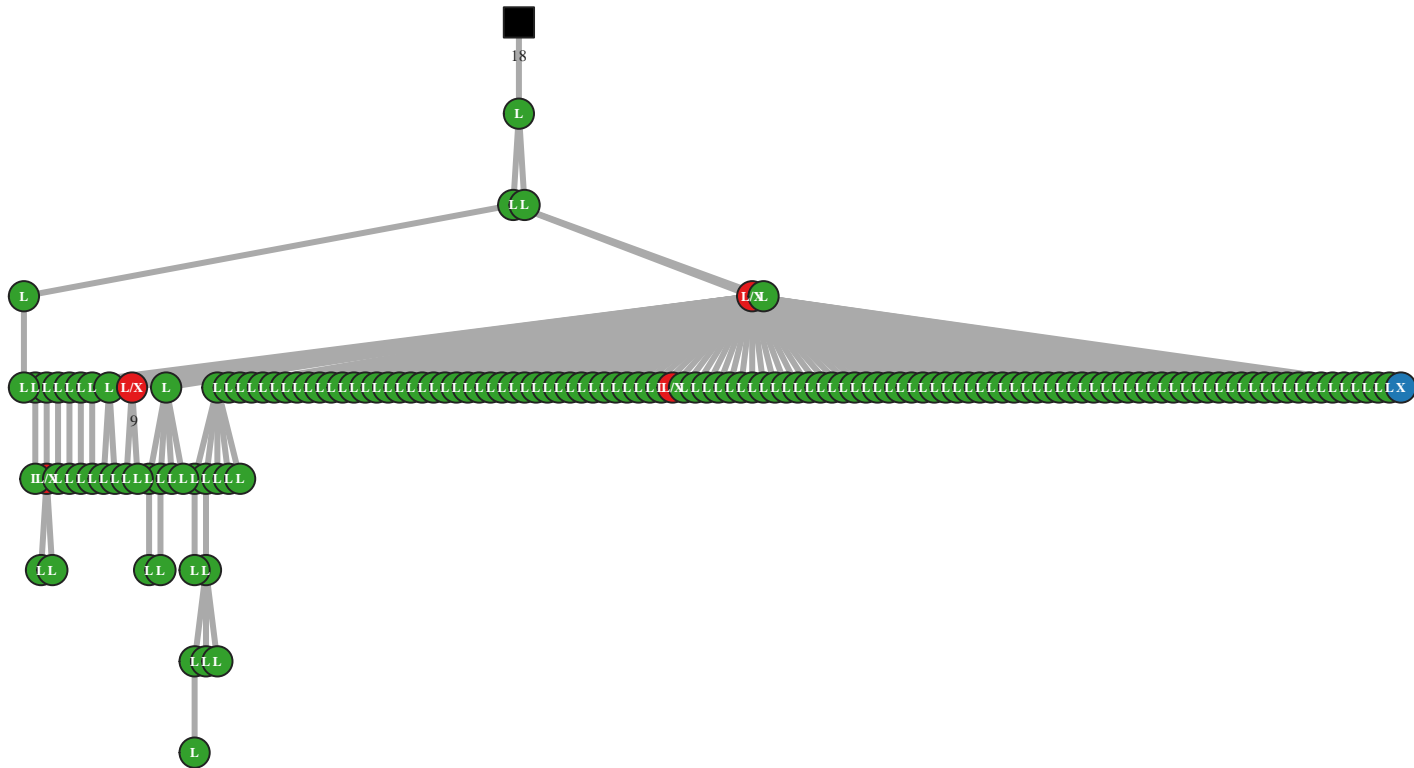
M3 IgG IGHV3-9/J4 60bp (3802)



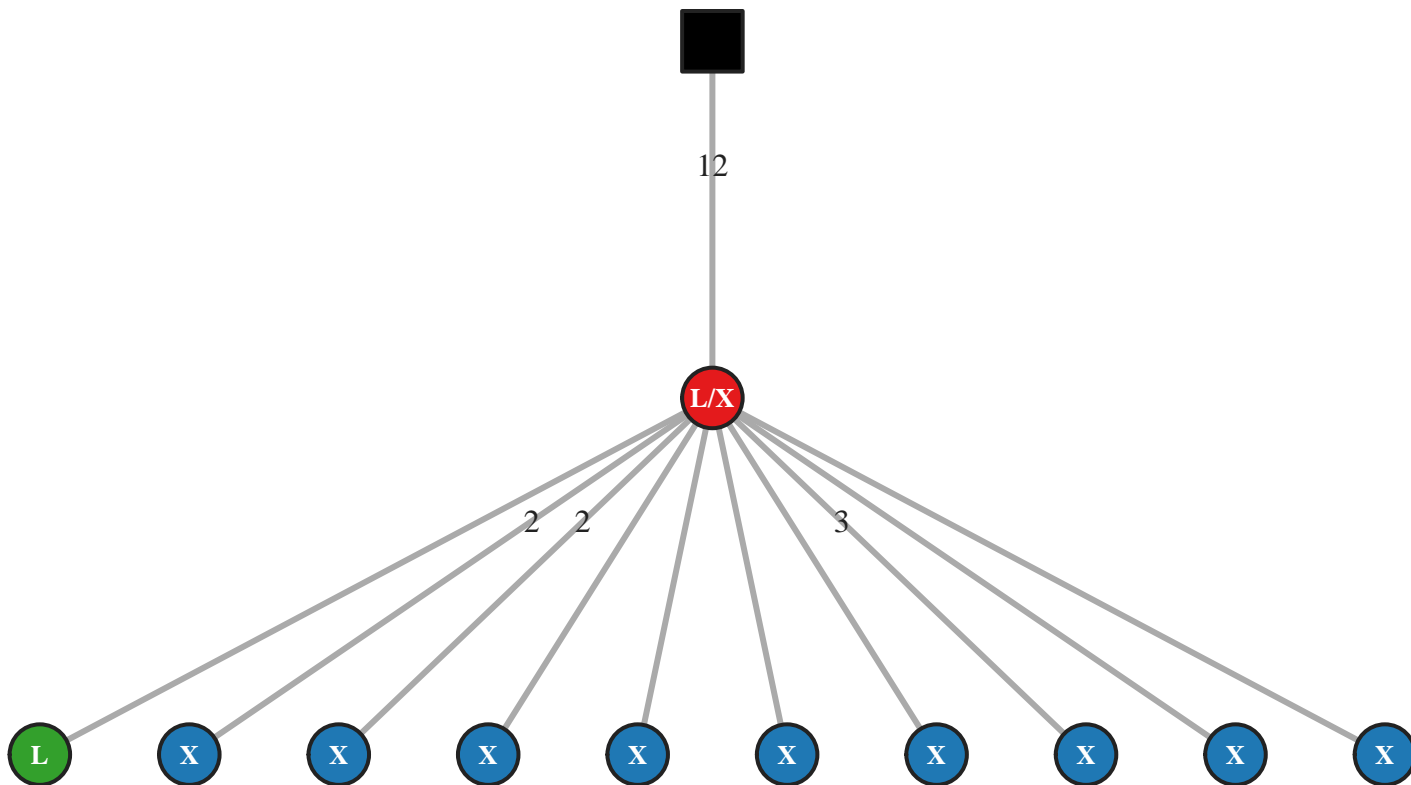
M3 IgG IGHV3-9/J6 51bp (7635)



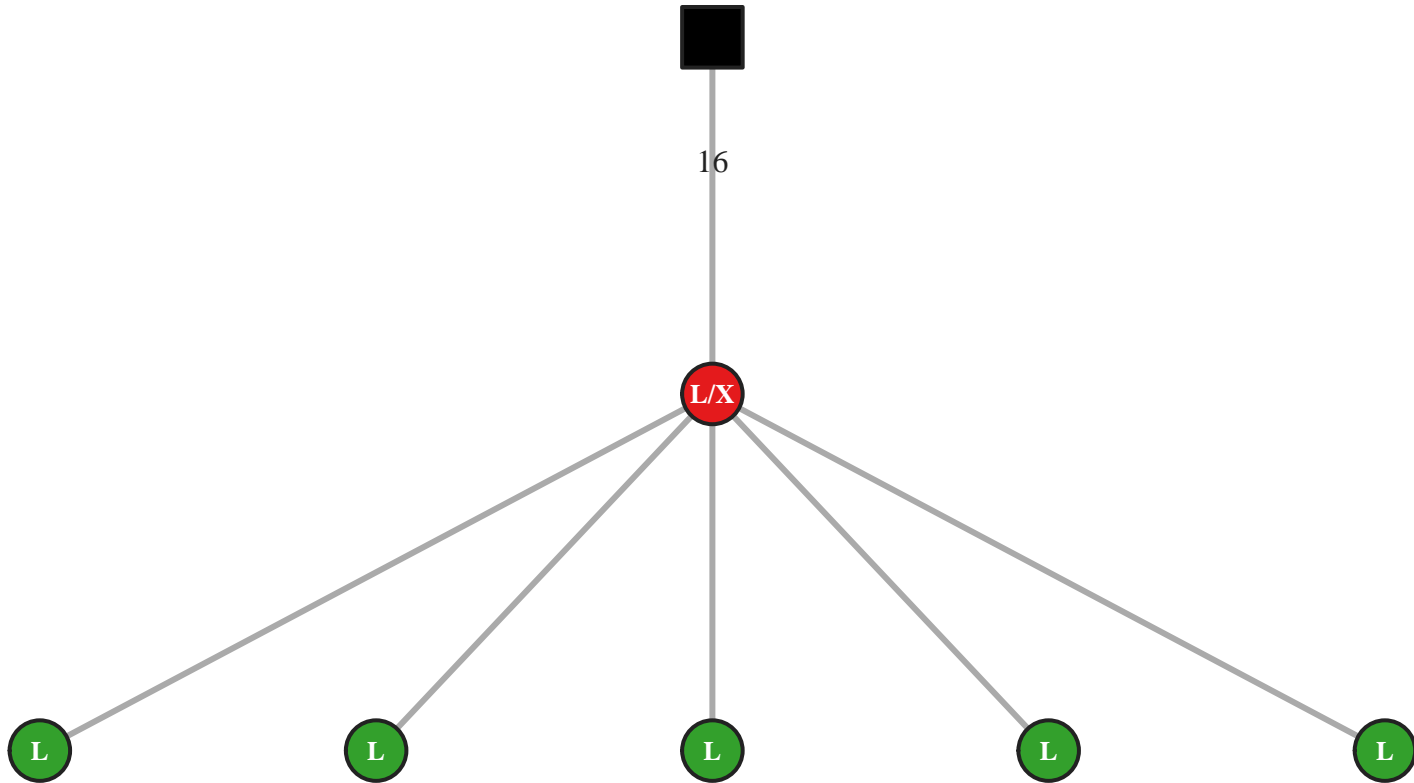
M3 IgG IGHV4-30-2/J3 54bp (3834)



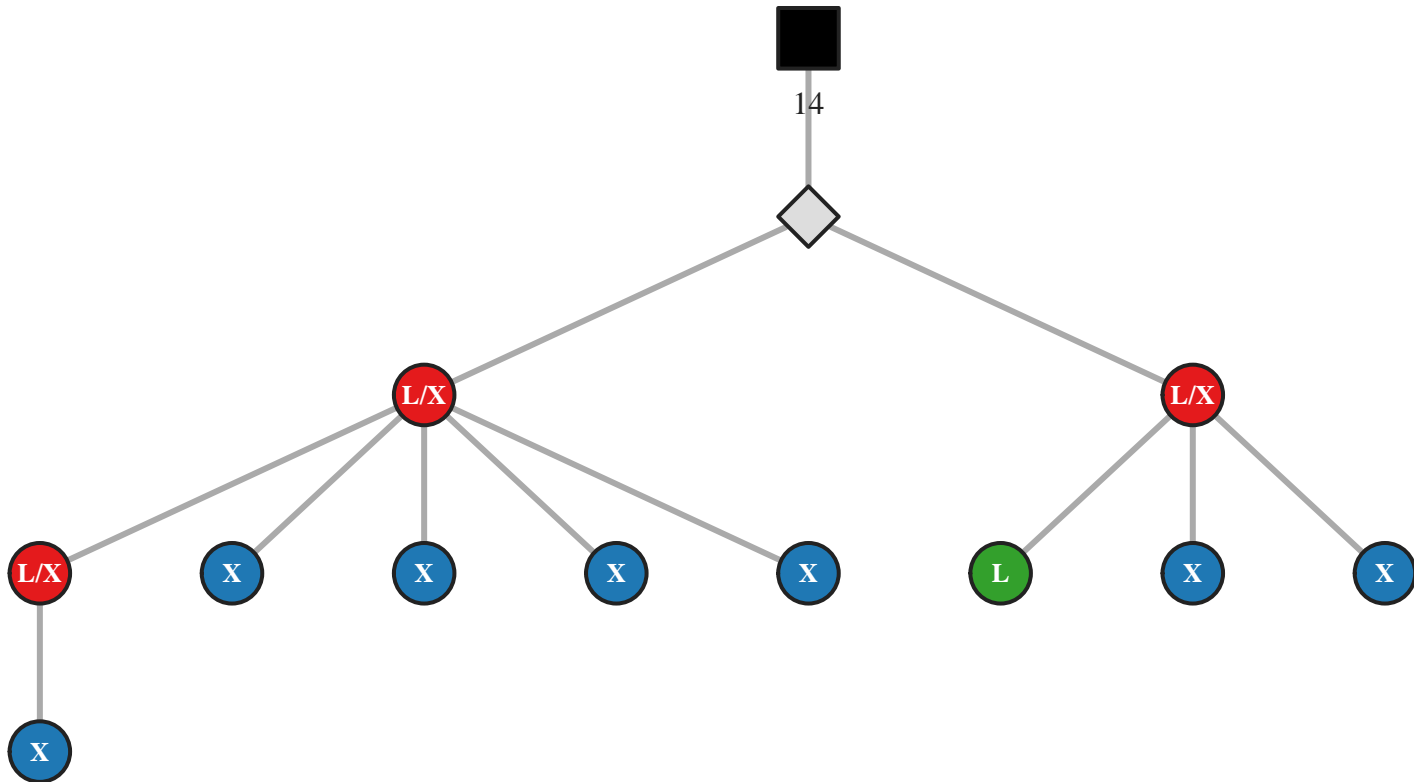
M3 IgG IGHV4-30-2/J3 69bp (3839)



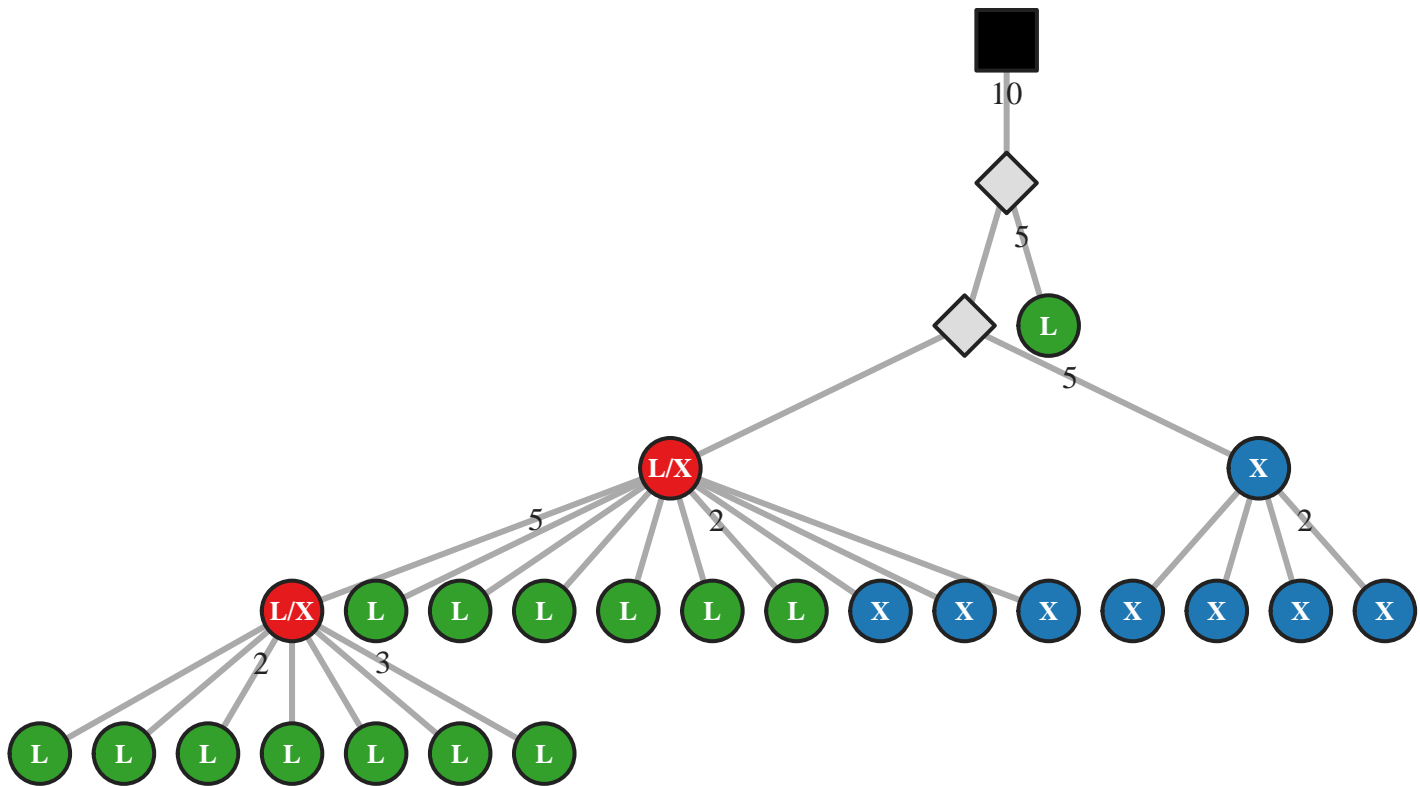
M3 IgG IGHV4-30-2/J4 42bp (15105)



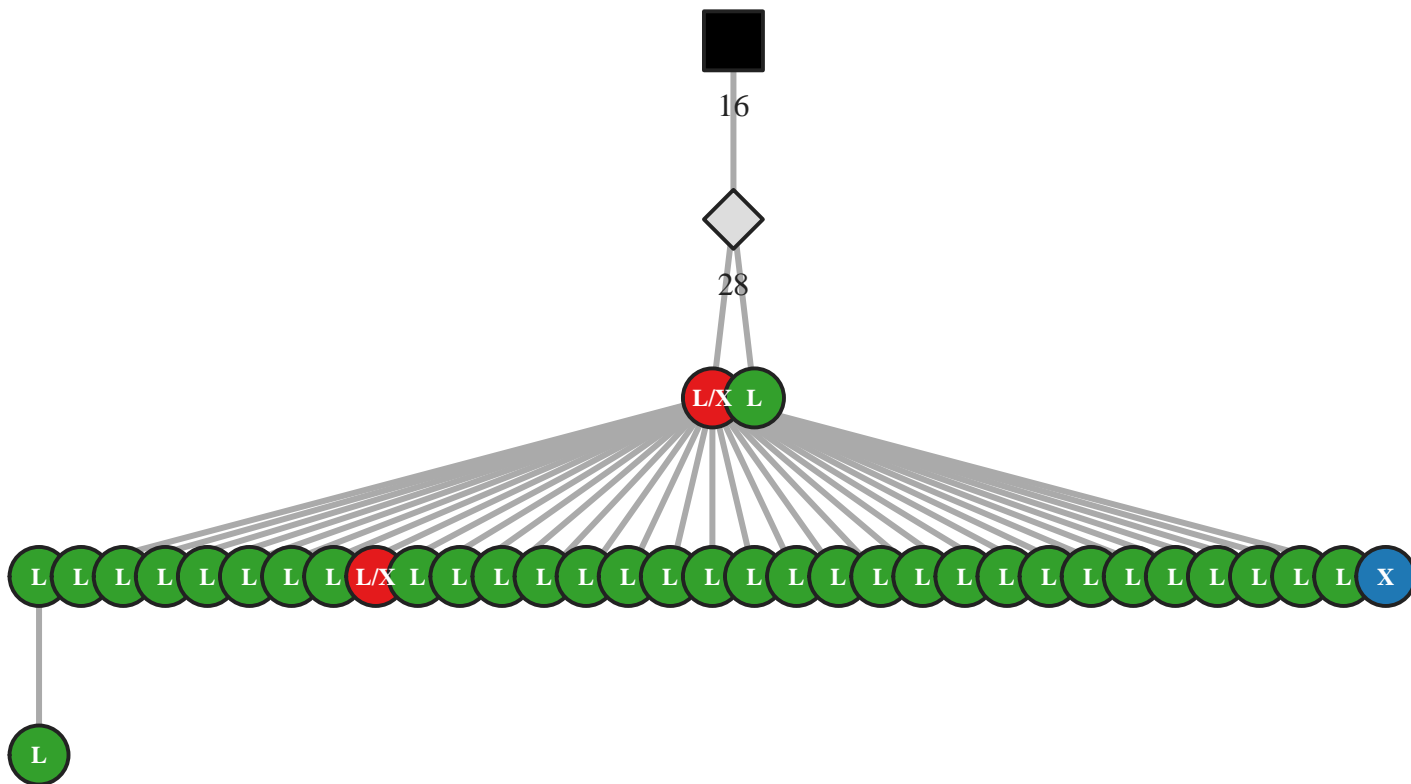
M3 IgG IGHV4-30-2/J4 45bp (3849)



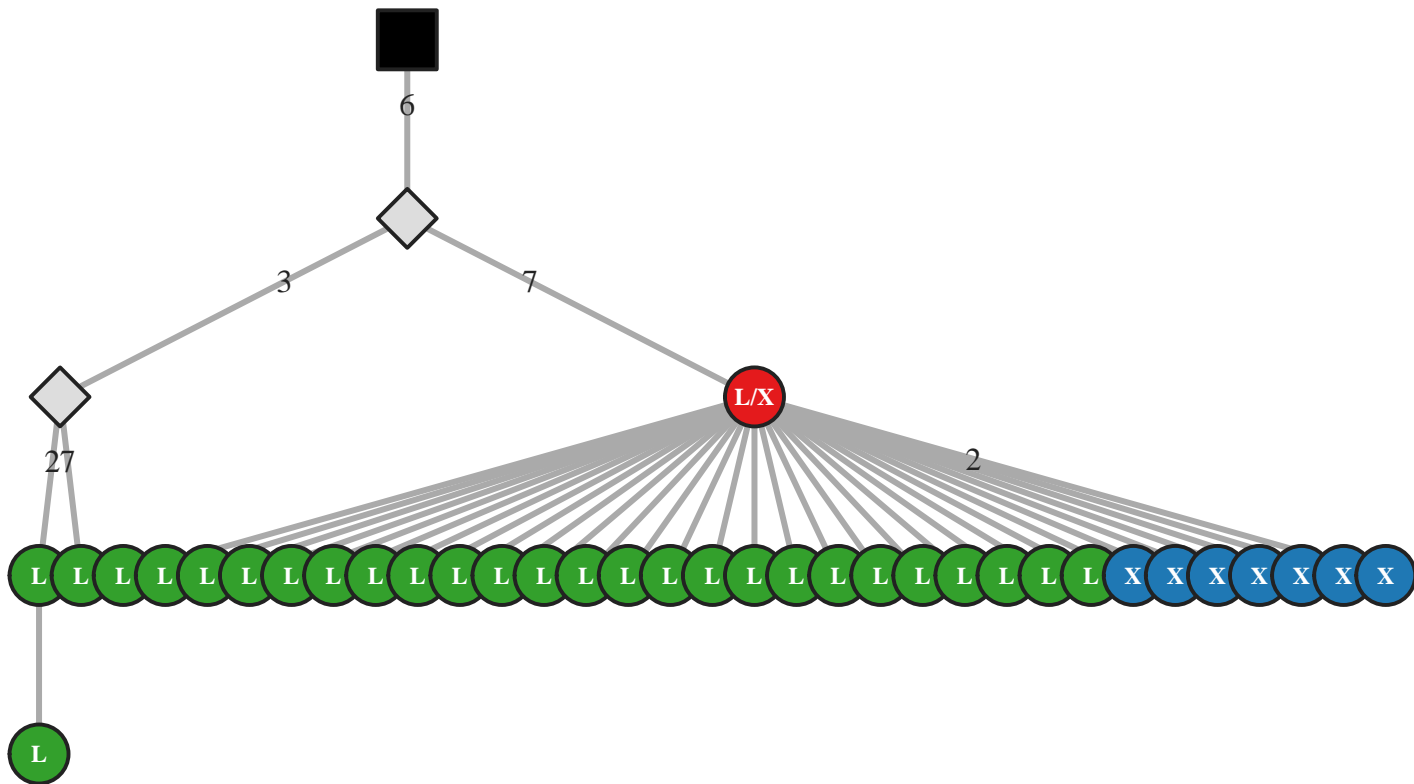
M3 IgG IGHV4-30-2/J4 54bp (15107)



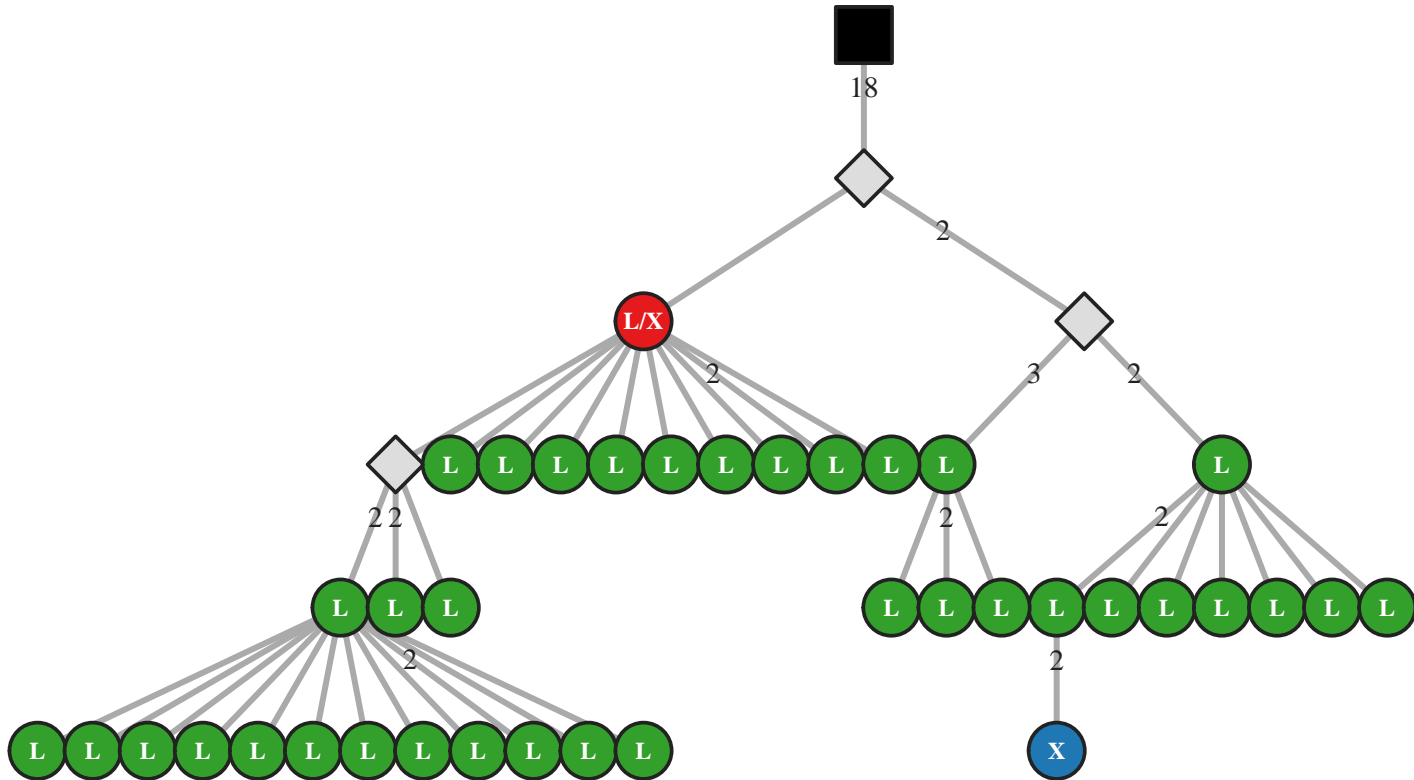
M3 IgG IGHV4-30-2/J4 63bp (7683)



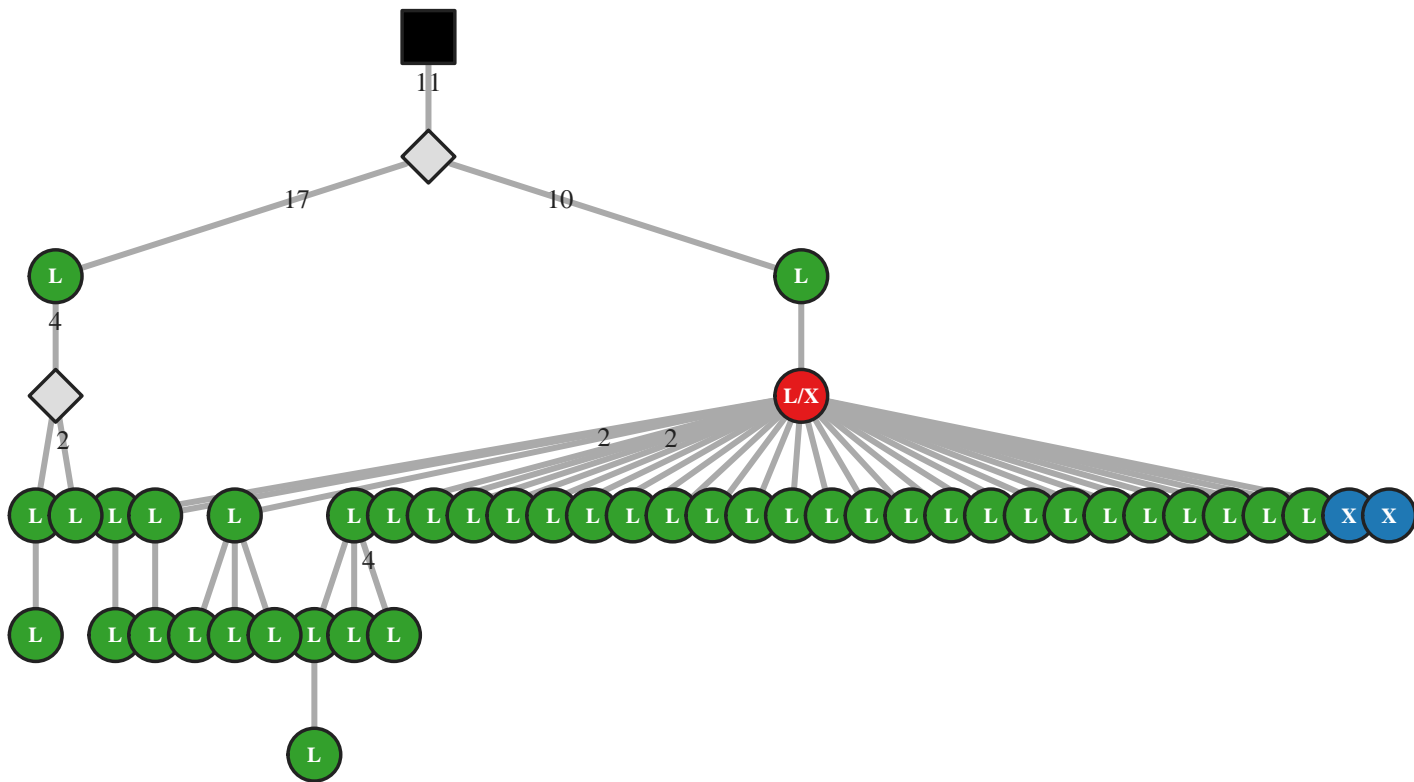
M3 IgG IGHV4-30-2/J5 24bp (11947)



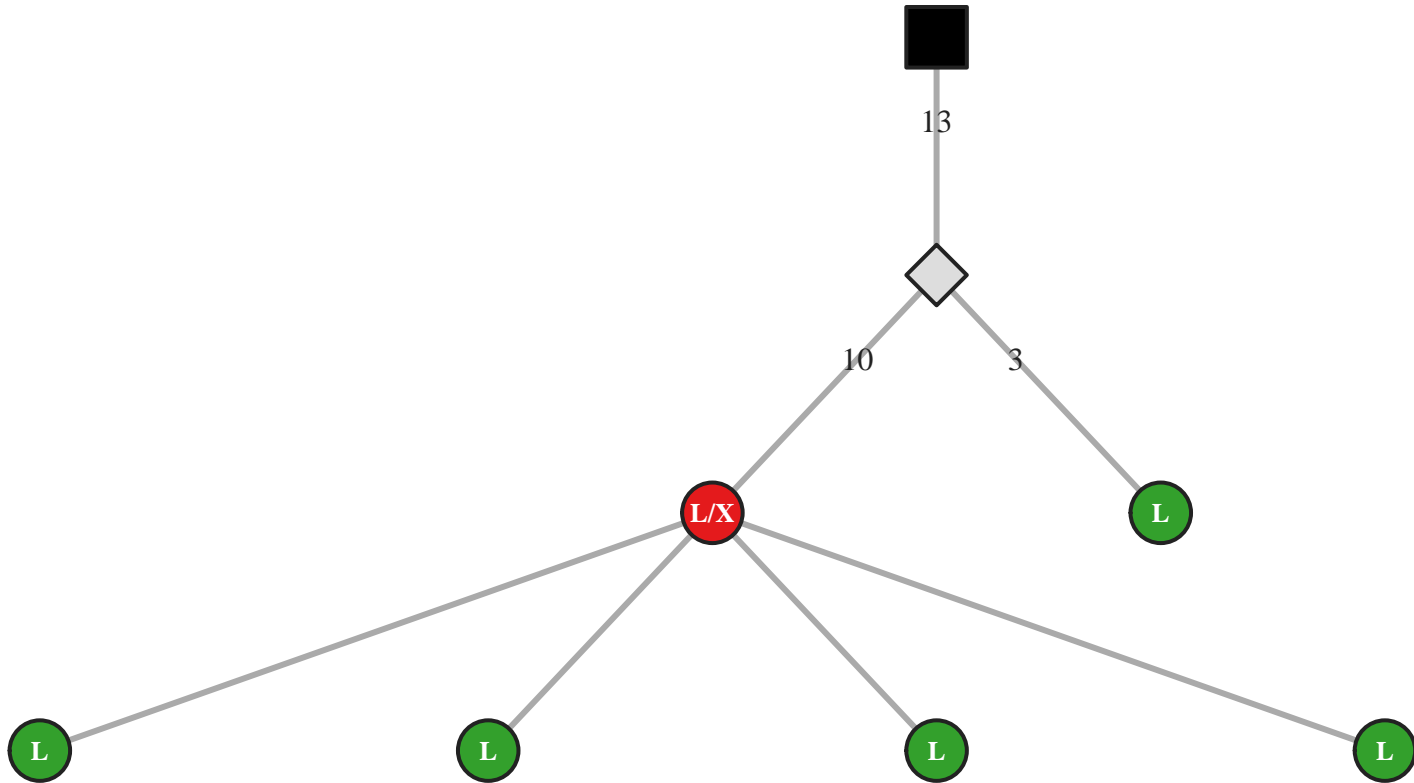
M3 IgG IGHV4-30-2/J5 42bp (7684)



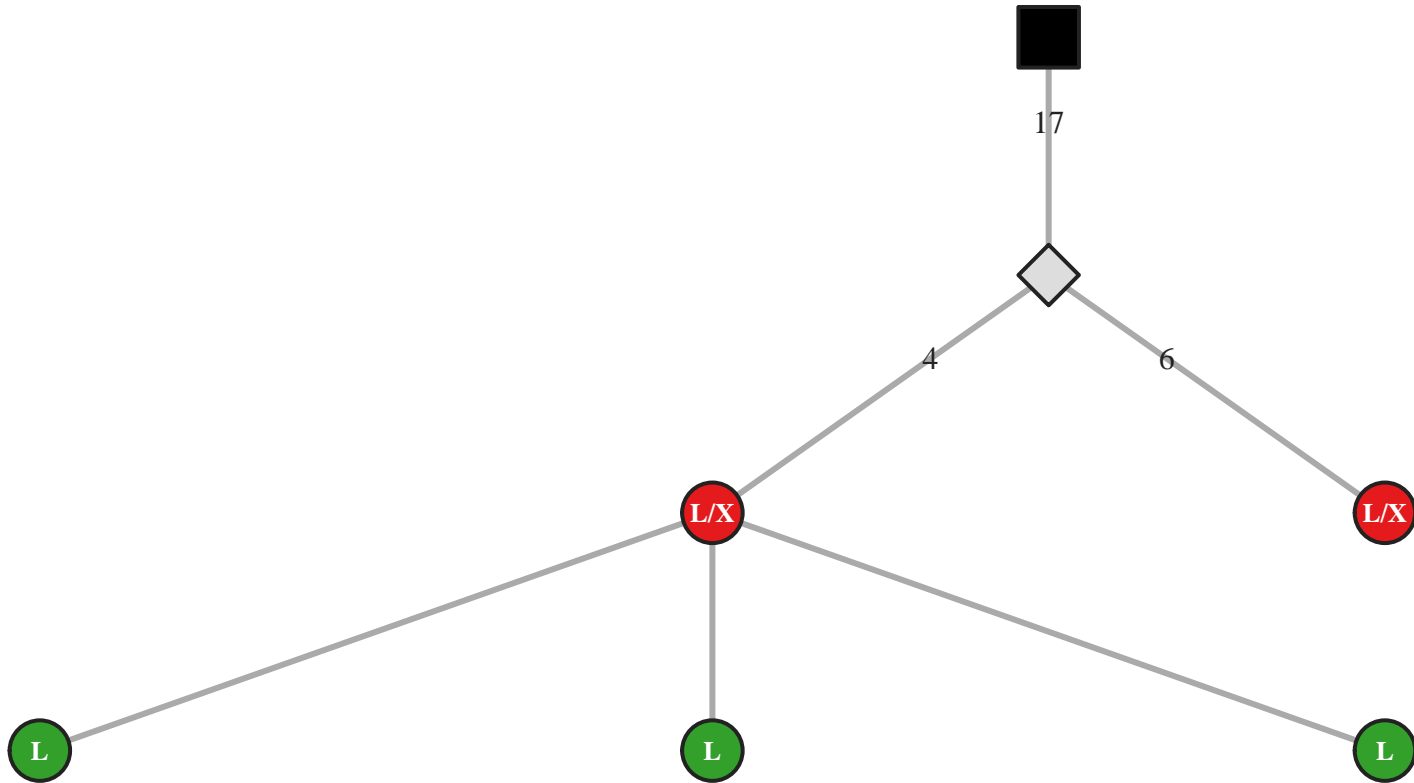
M3 IgG IGHV4-30-2/J5 48bp (151110)



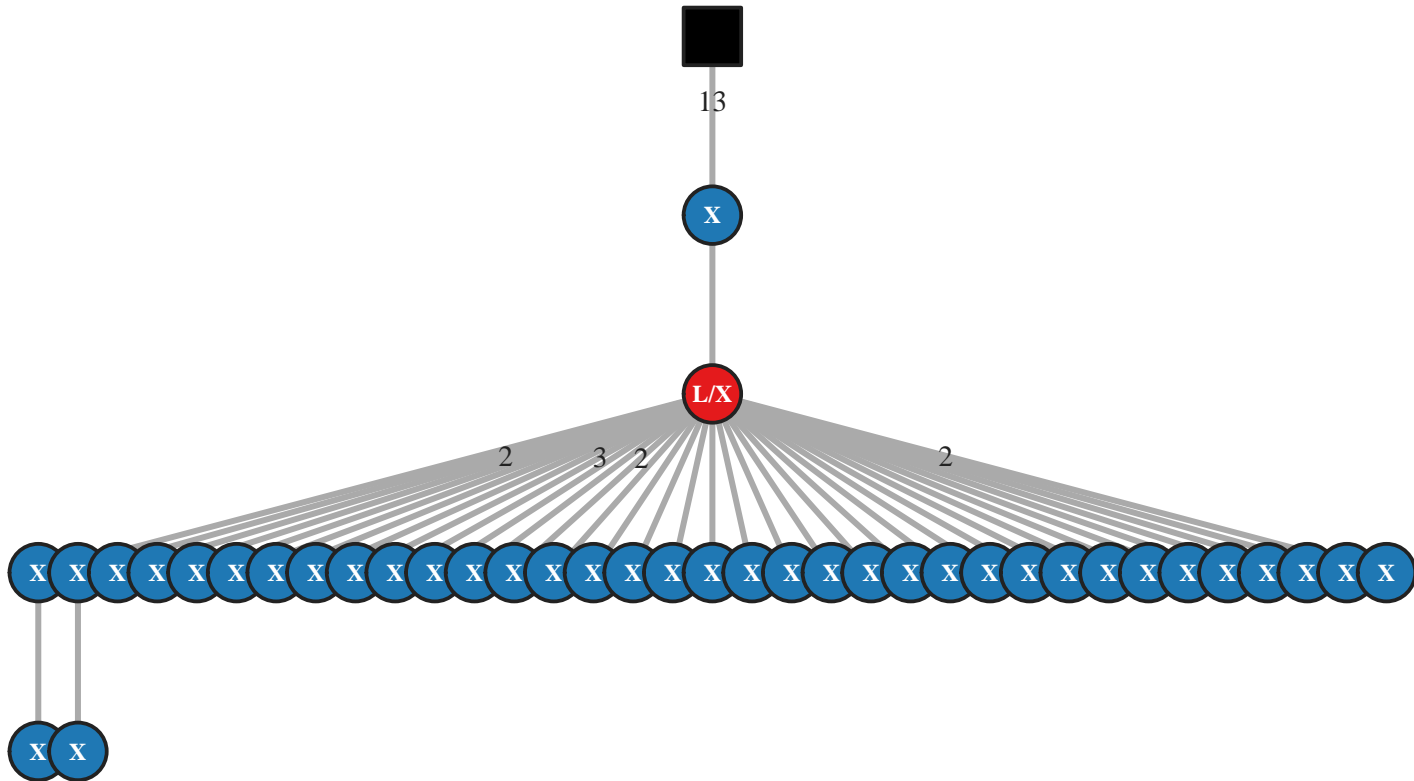
M3 IgG IGHV4-30-2/J5 48bp (15111)



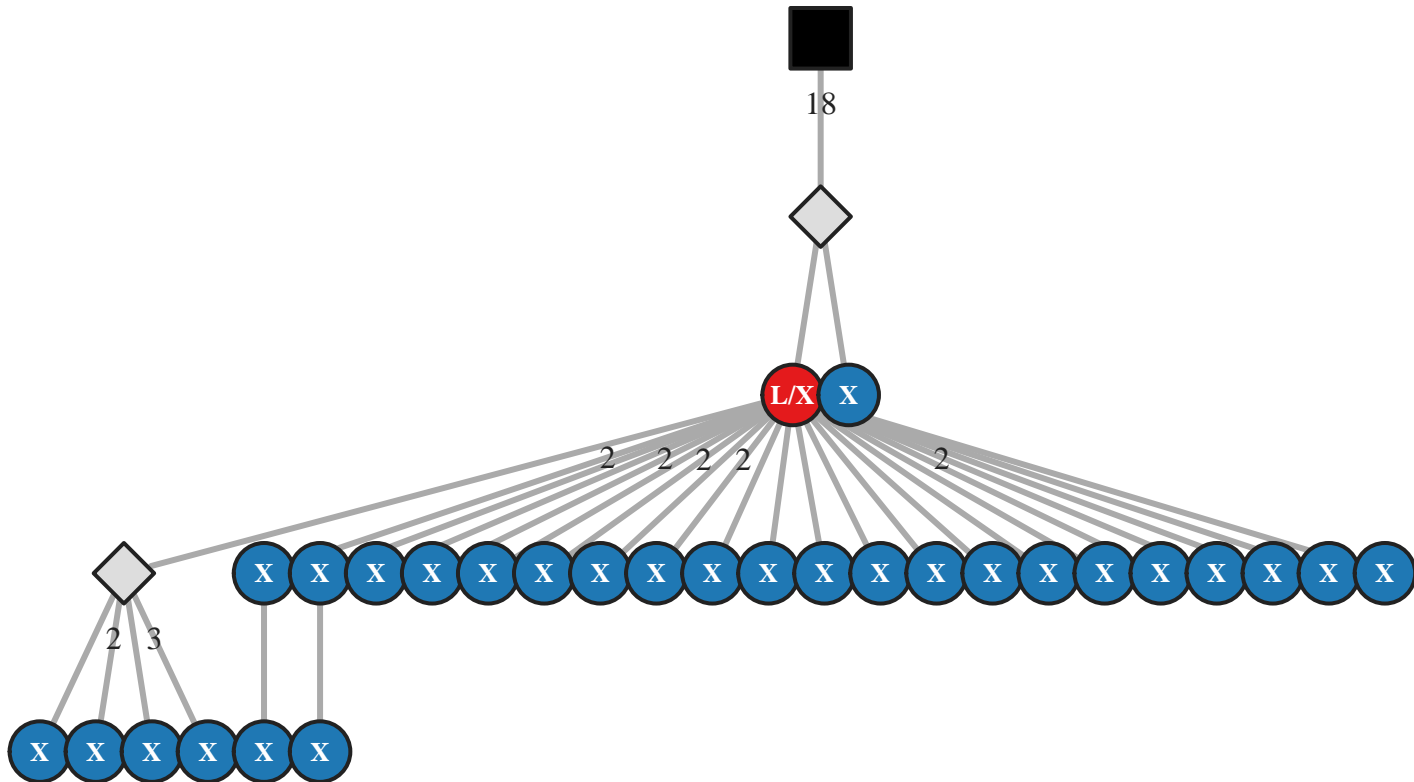
M3 IgG IGHV4-30-2/J5 51bp (15116)



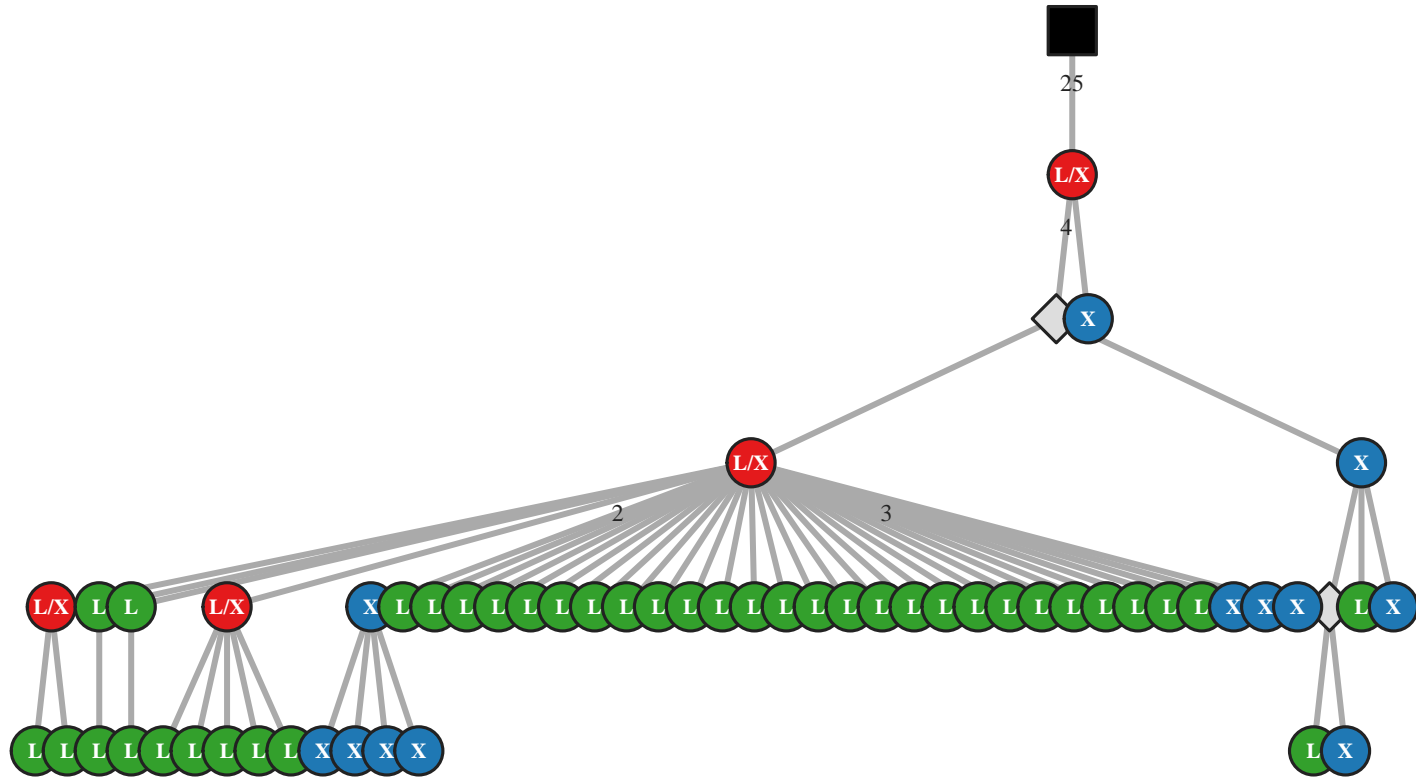
M3 IgG IGHV4-30-2/J5 54bp (11951)



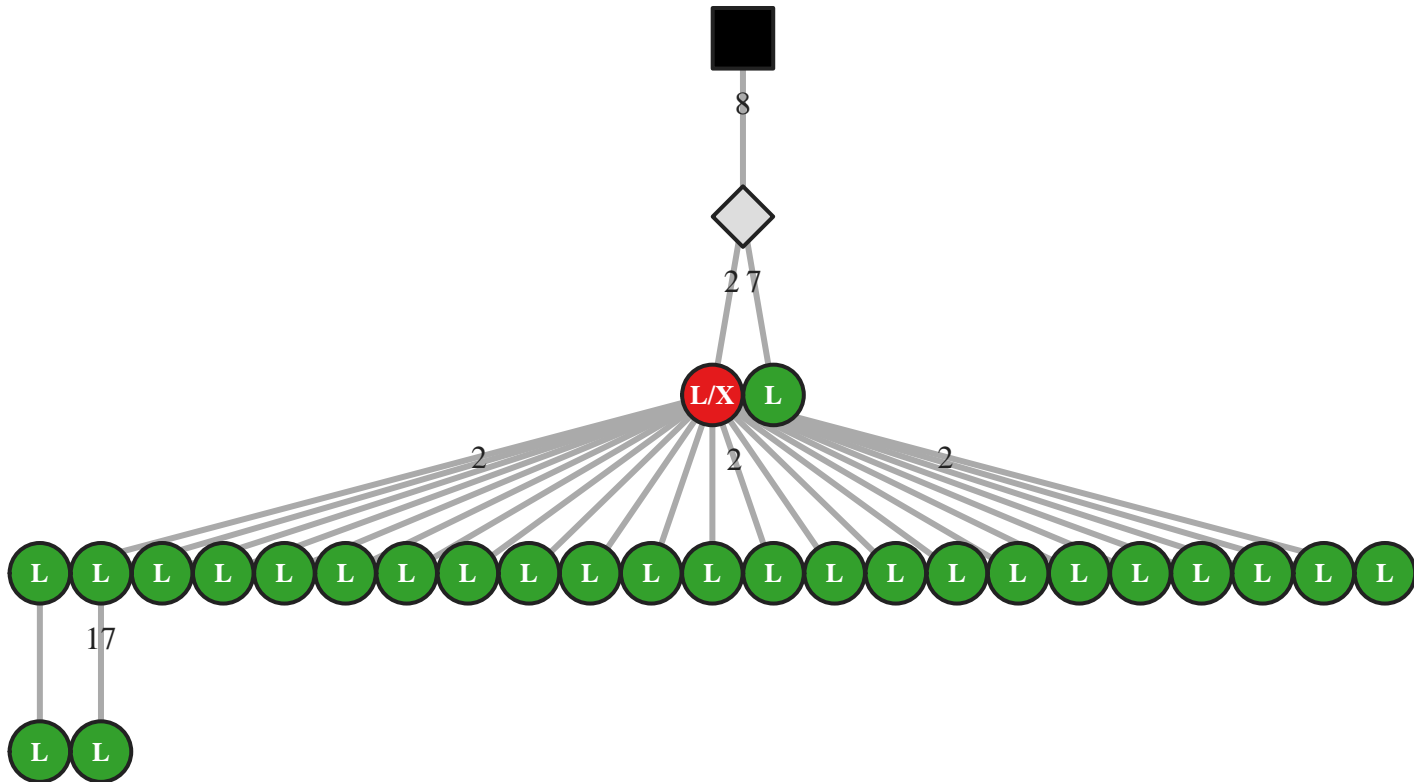
M3 IgG IGHV4-30-2/J5 66bp (7688)



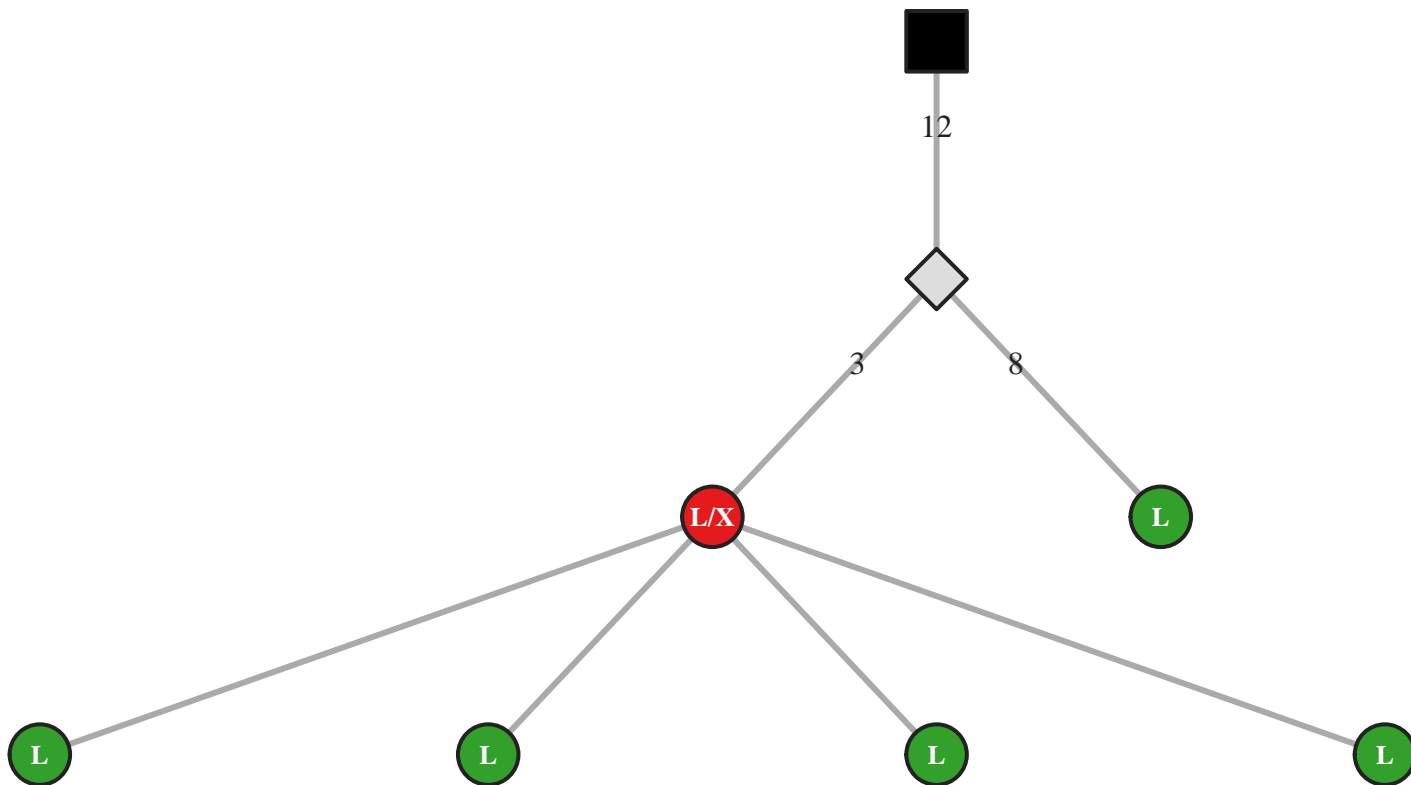
M3 IgG IGHV4-30-4/J3 51bp (15123)



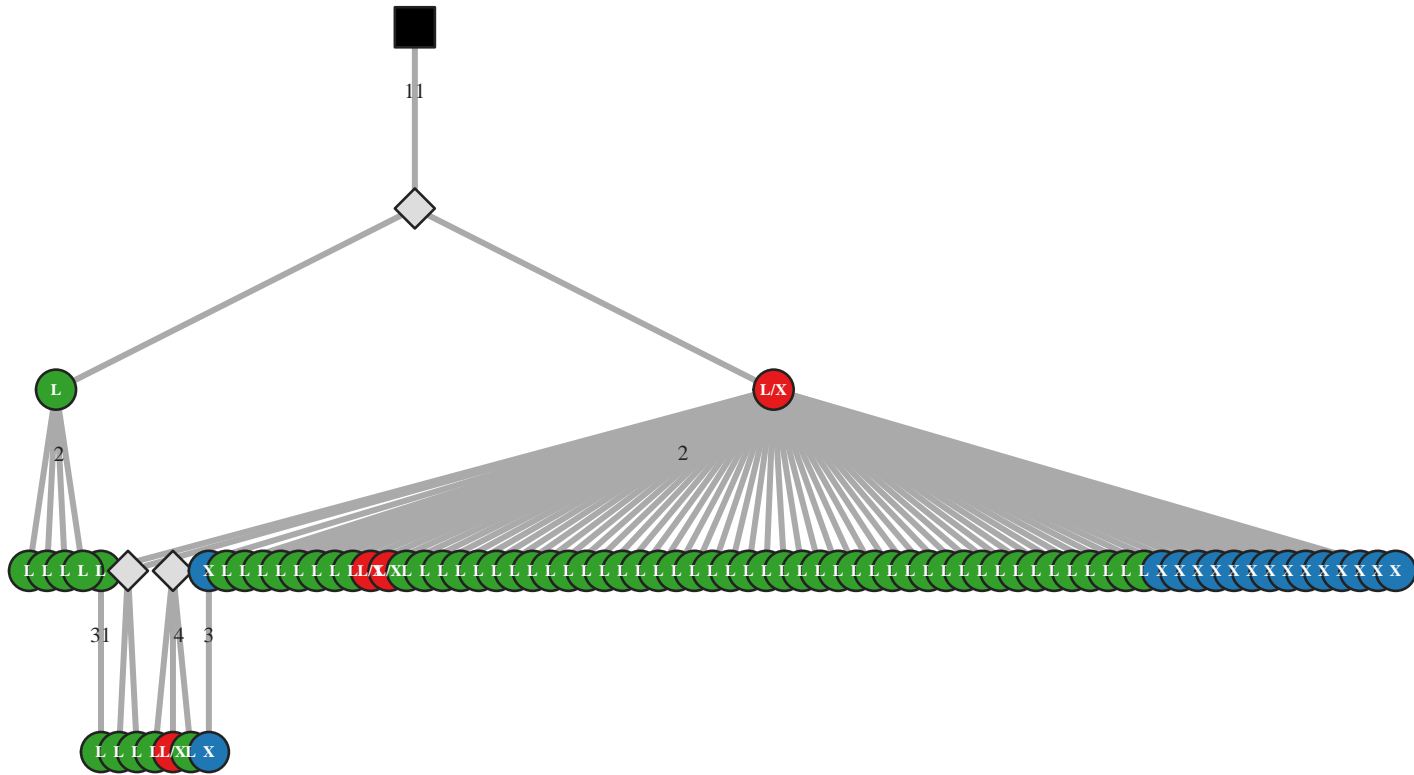
M3 IgG IGHV4-30-4/J4 42bp (3858)



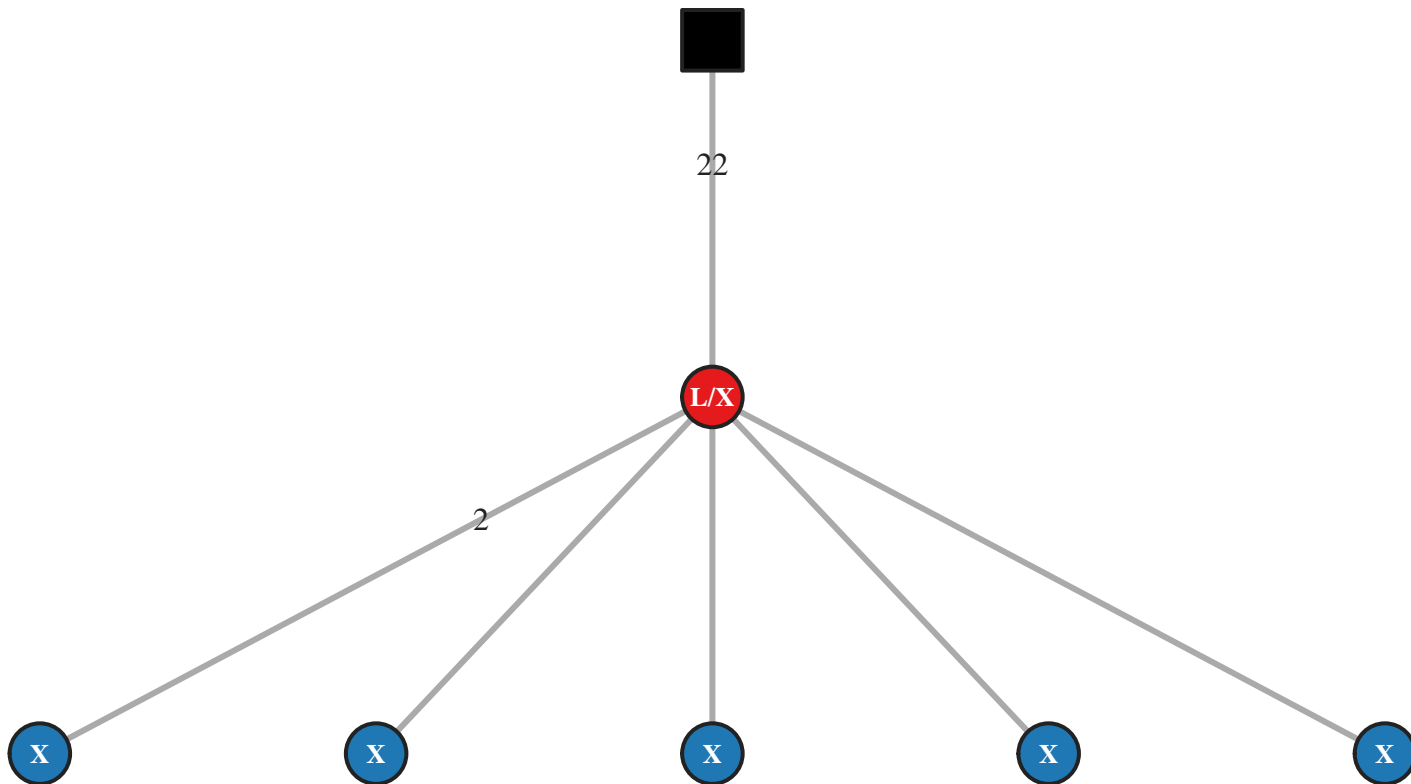
M3 IgG IGHV4-30-4/J4 45bp (7702)



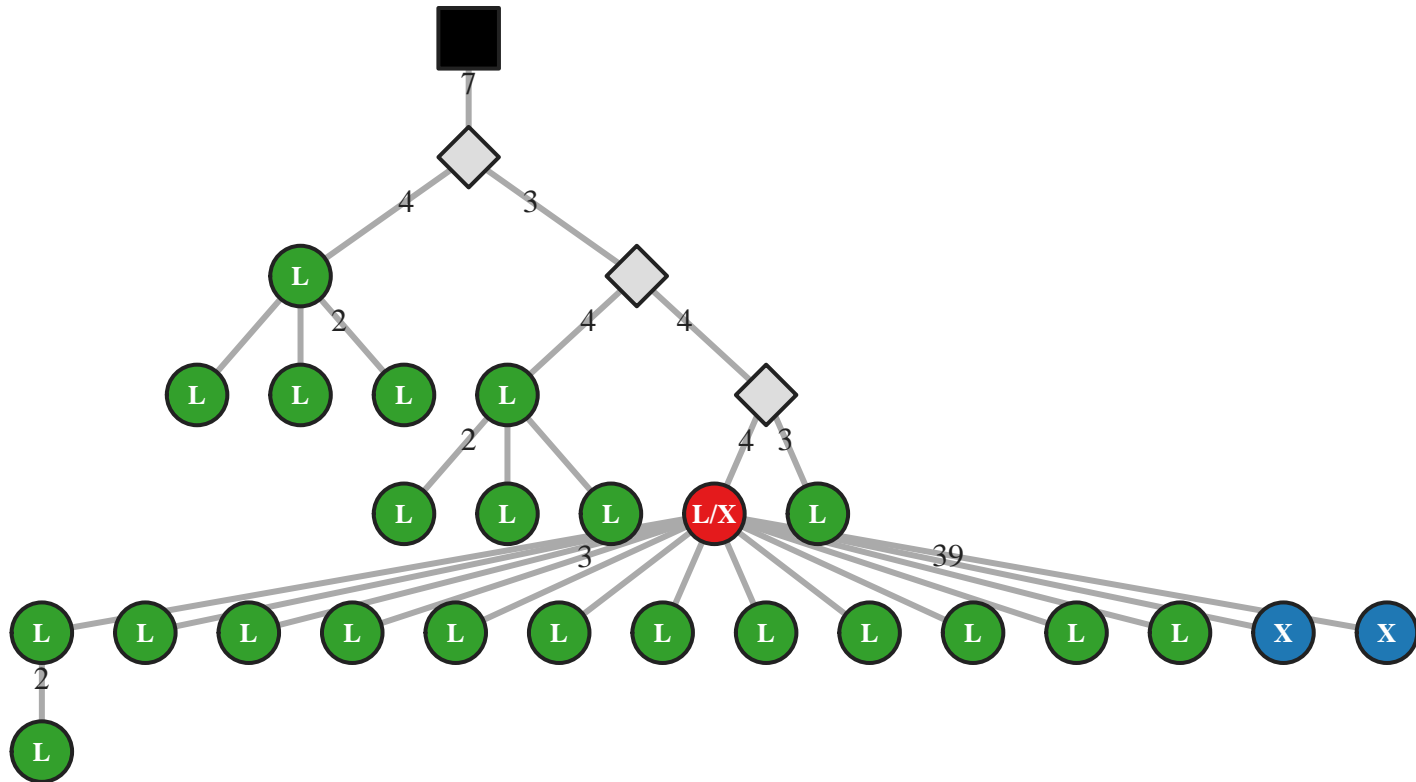
M3 IgG IGHV4-30-4/J4 45bp (7710)



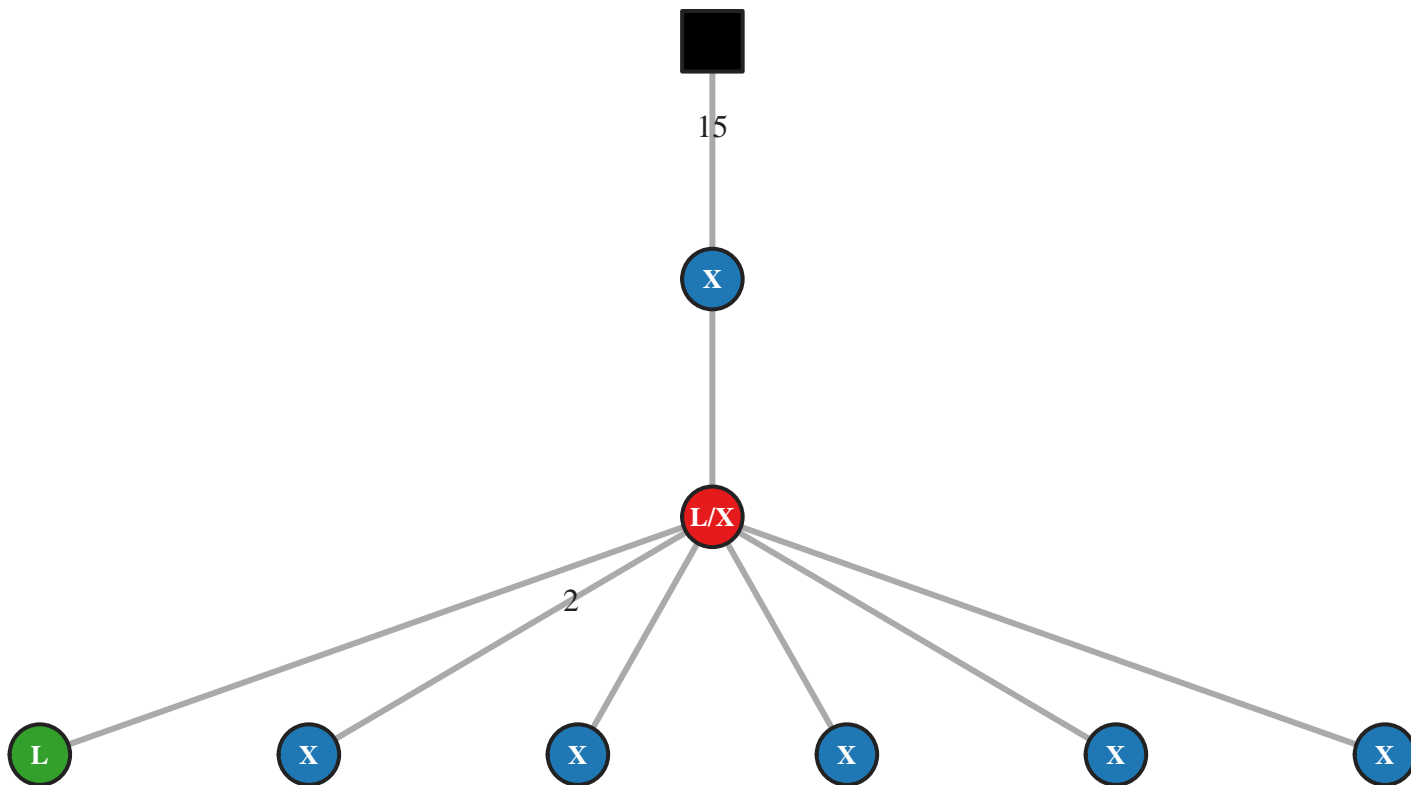
M3 IgG IGHV4-30-4/J4 45bp (7711)



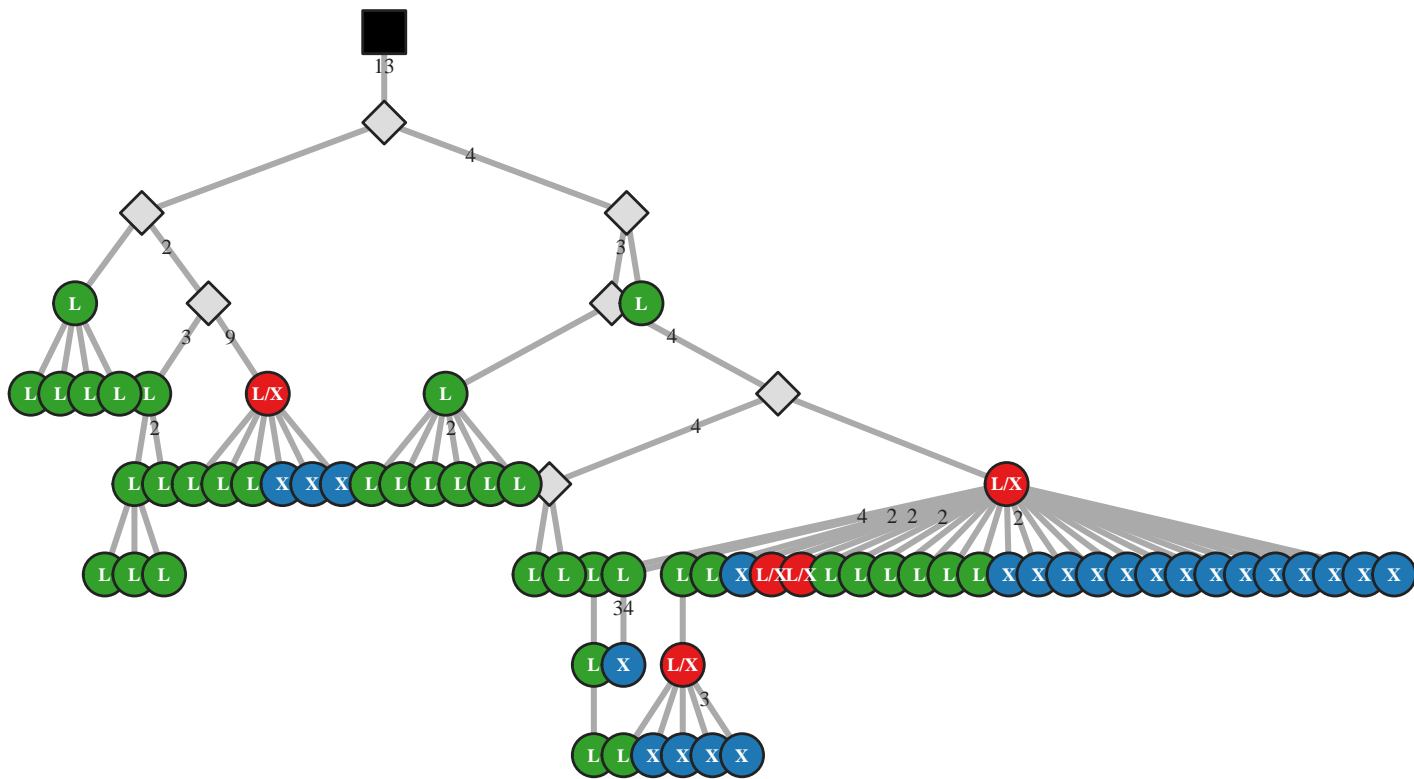
M3 IgG IGHV4-30-4/J4 45bp (7714)



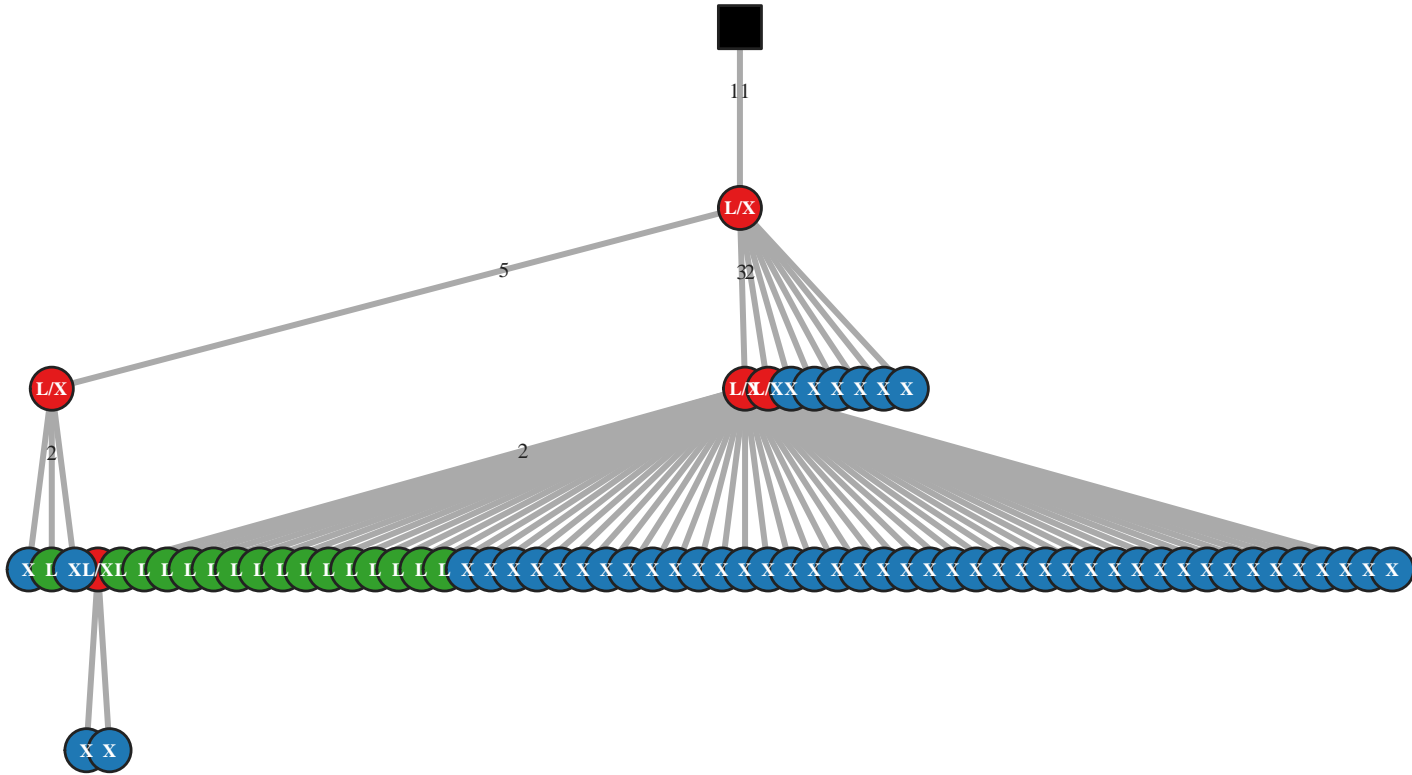
M3 IgG IGHV4-30-4/J4 45bp (7717)



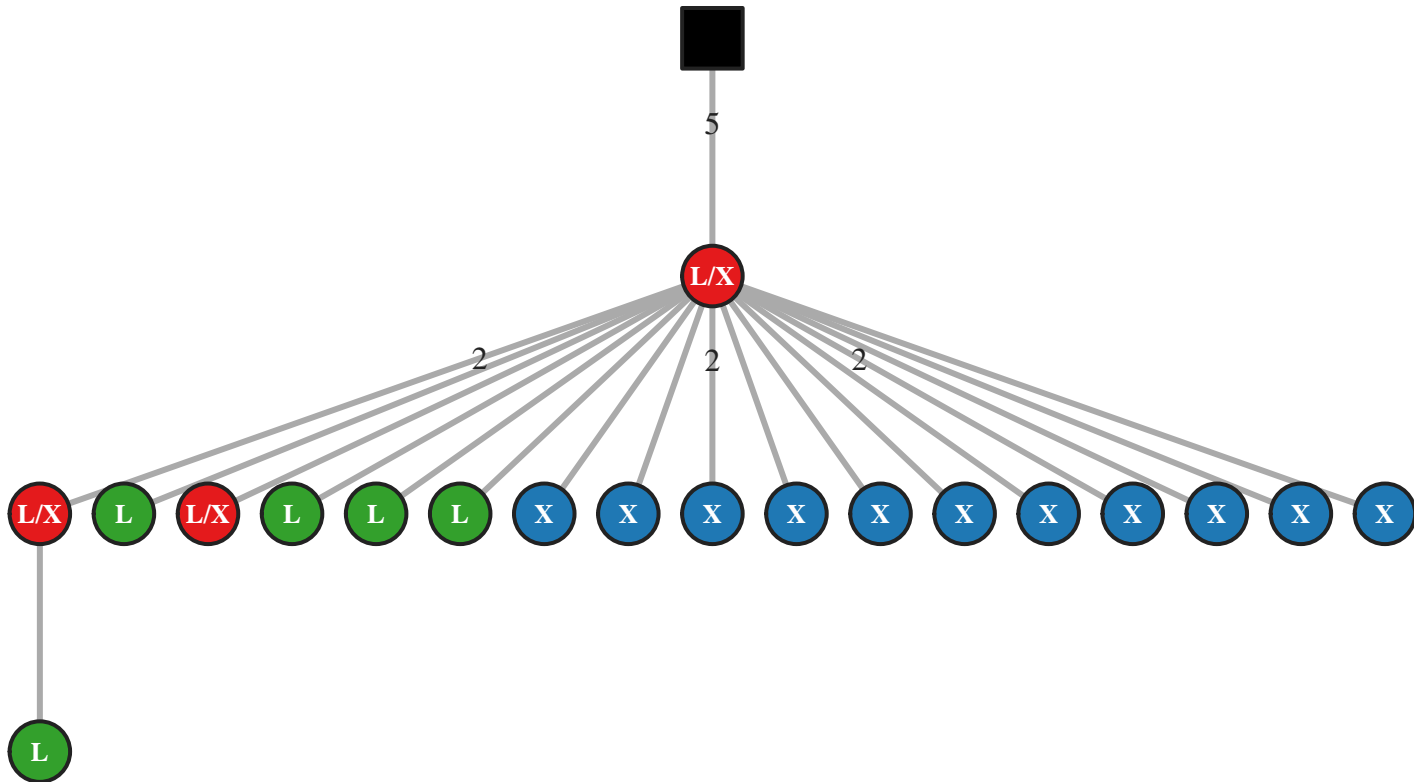
M3 IgG IGHV4-30-4/J4 48bp (3915)



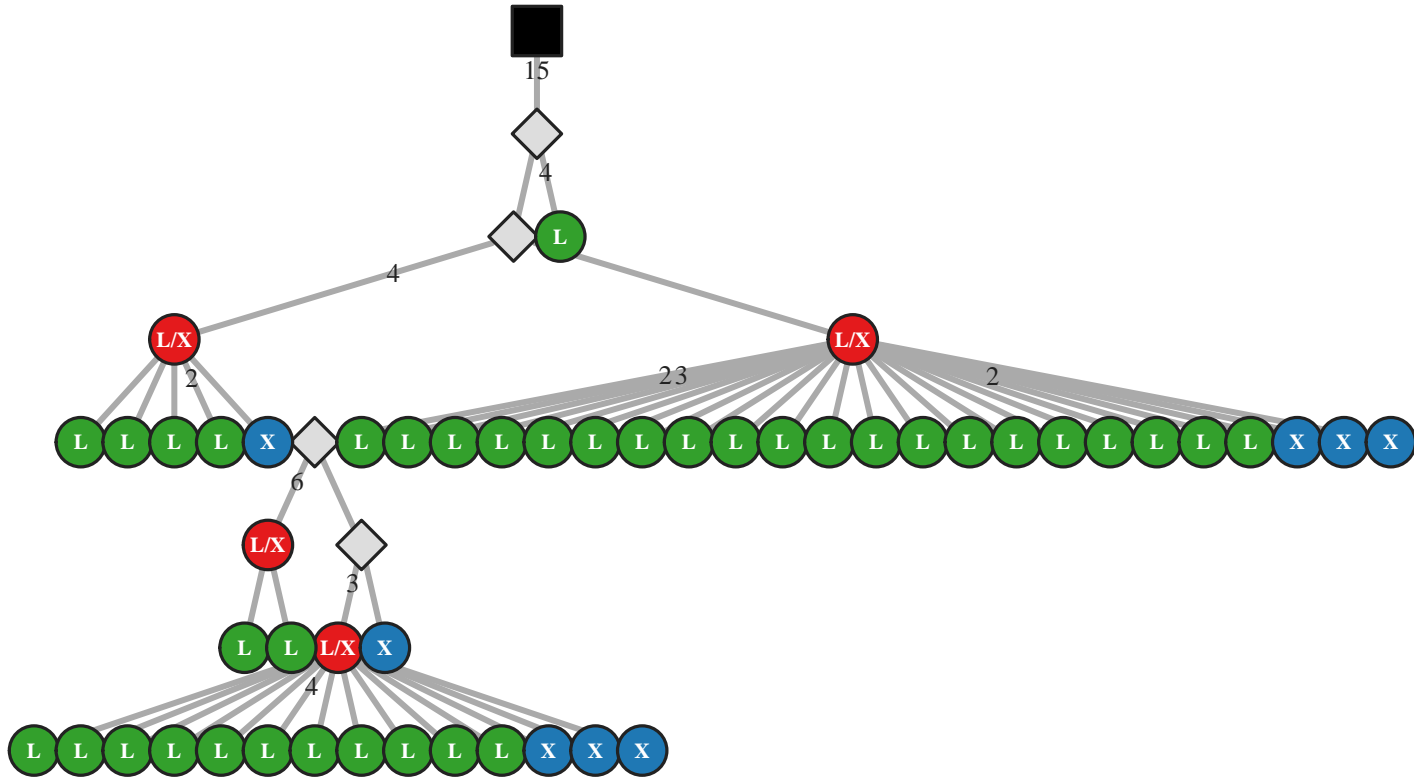
M3 IgG IGHV4-30-4/J4 48bp (3920)



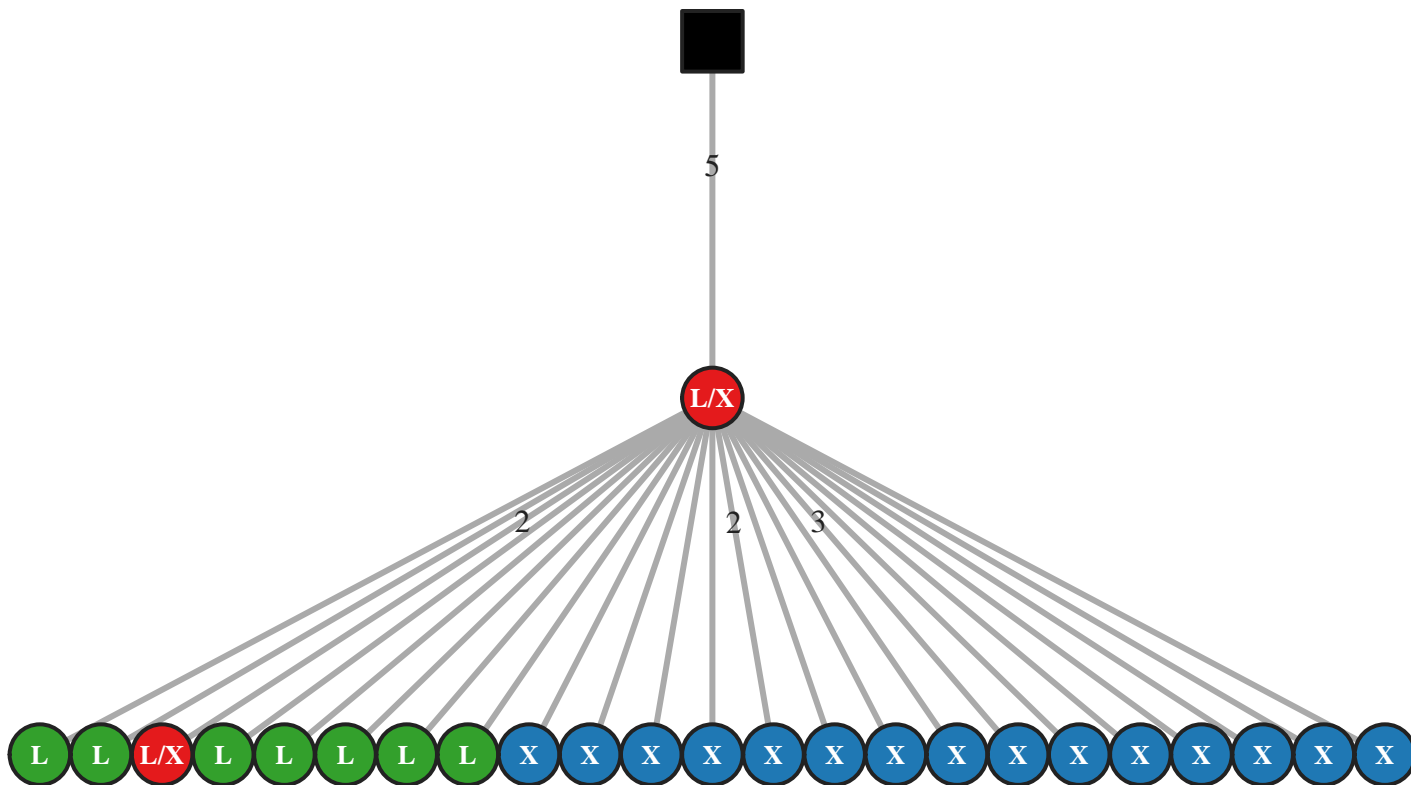
M3 IgG IGHV4-30-4/J4 60bp (3865)



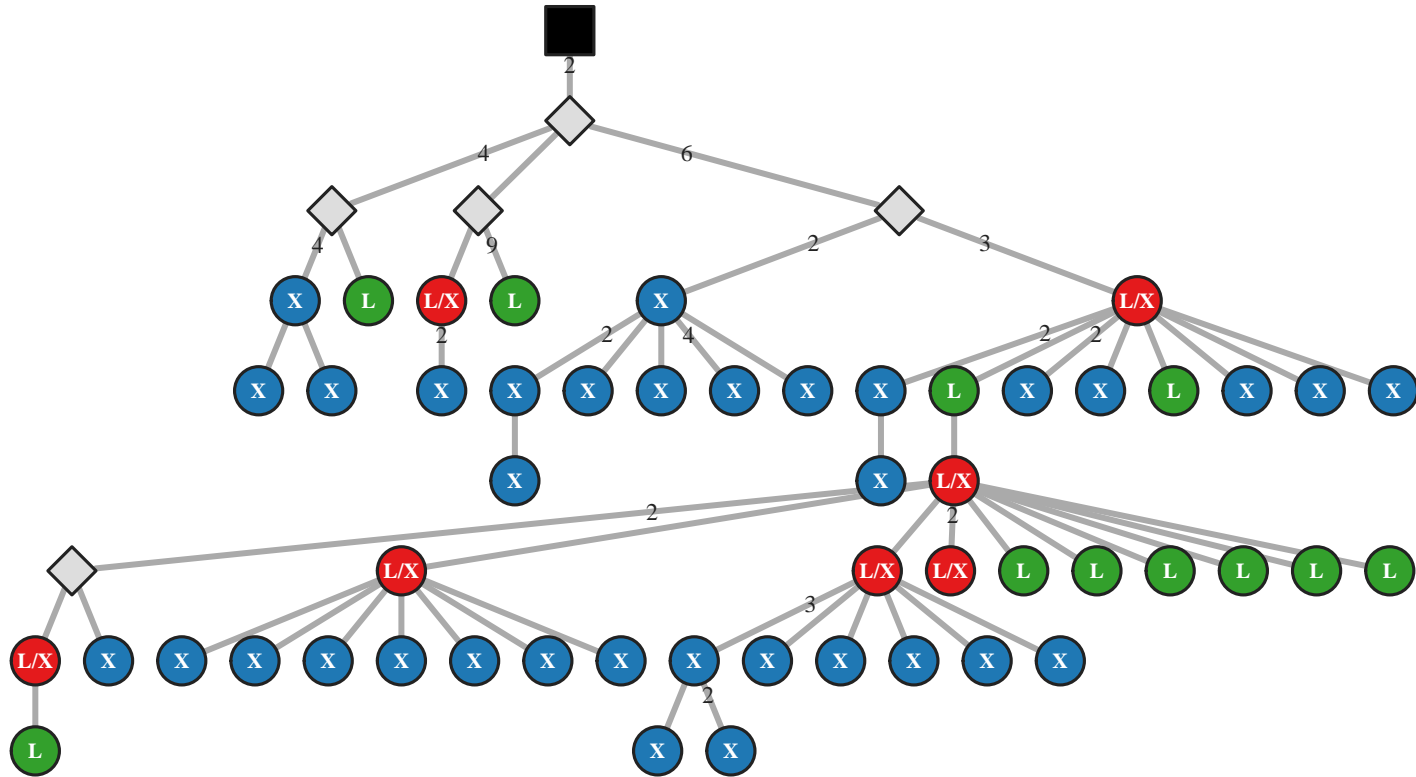
M3 IgG IGHV4-30-4/J5 51bp (3869)



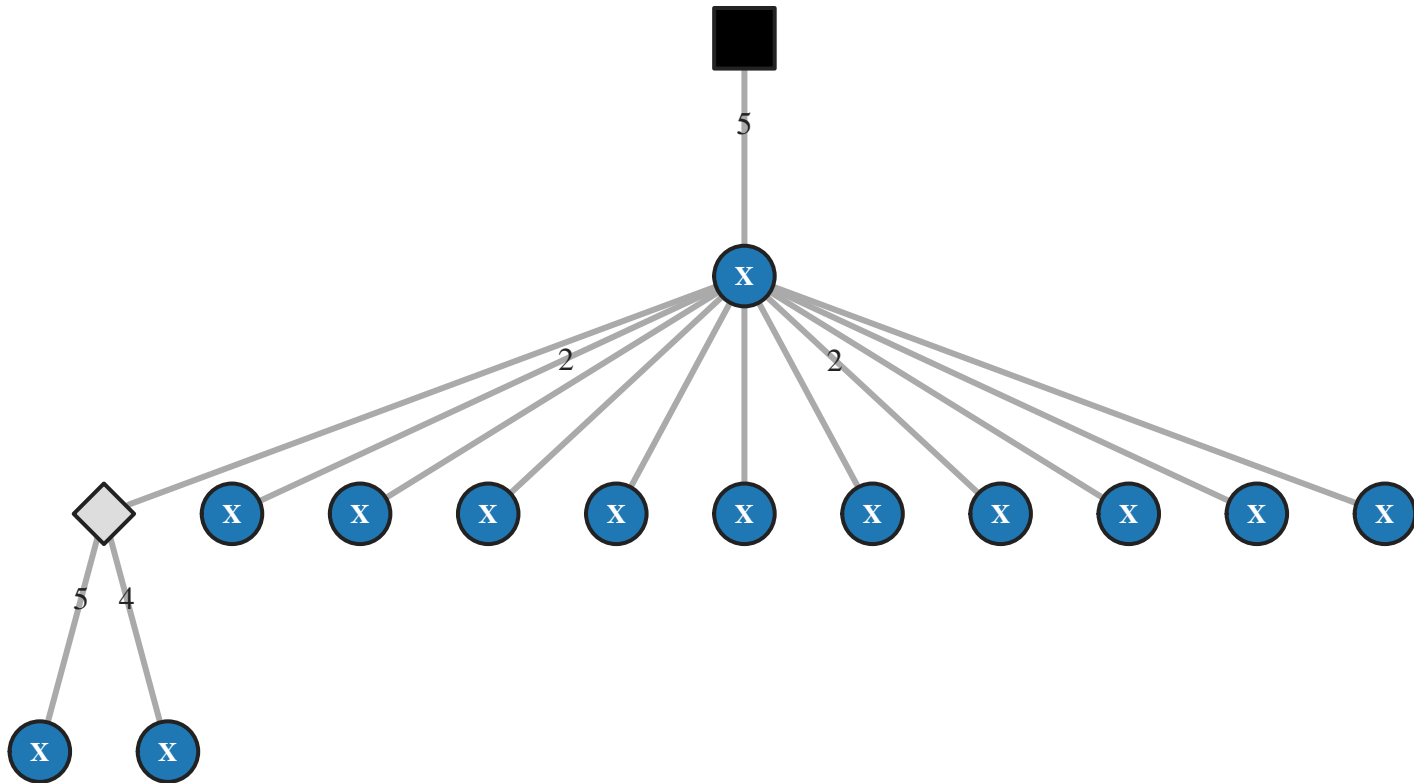
M3 IgG IGHV4-30-4/J5 54bp (7730)



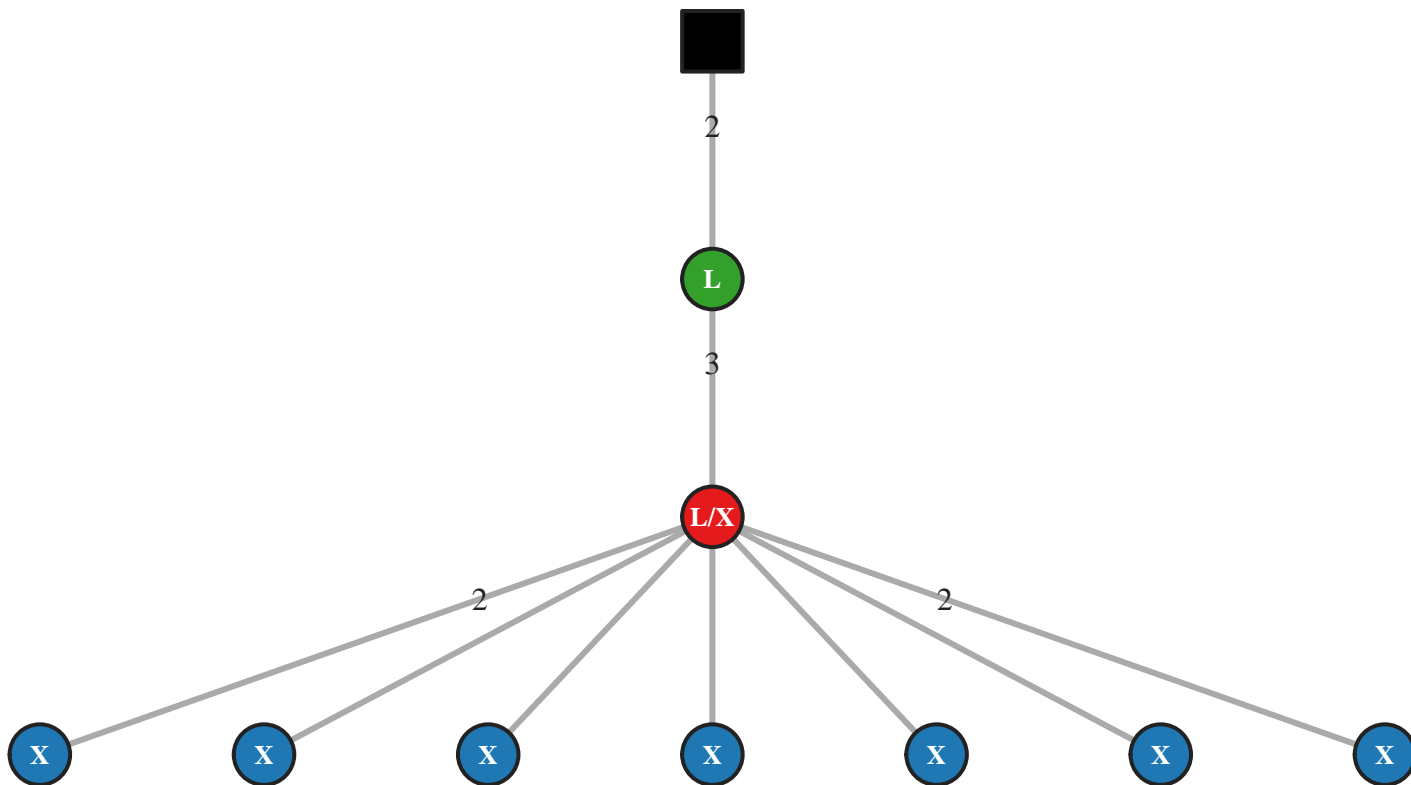
M3 IgG IGHV4-30-4/J5 60bp (11959)



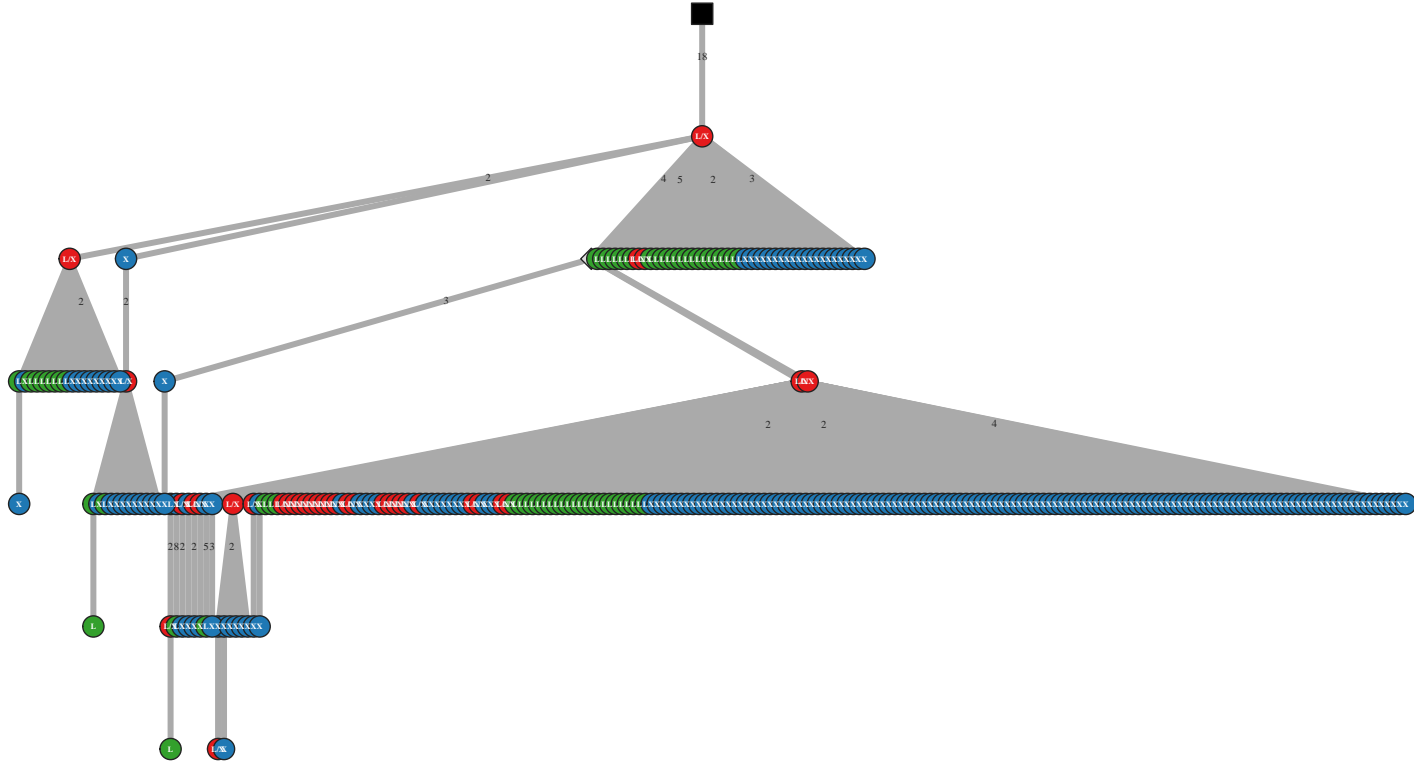
M3 IgG IGHV4-30-4/J5 60bp (11960)



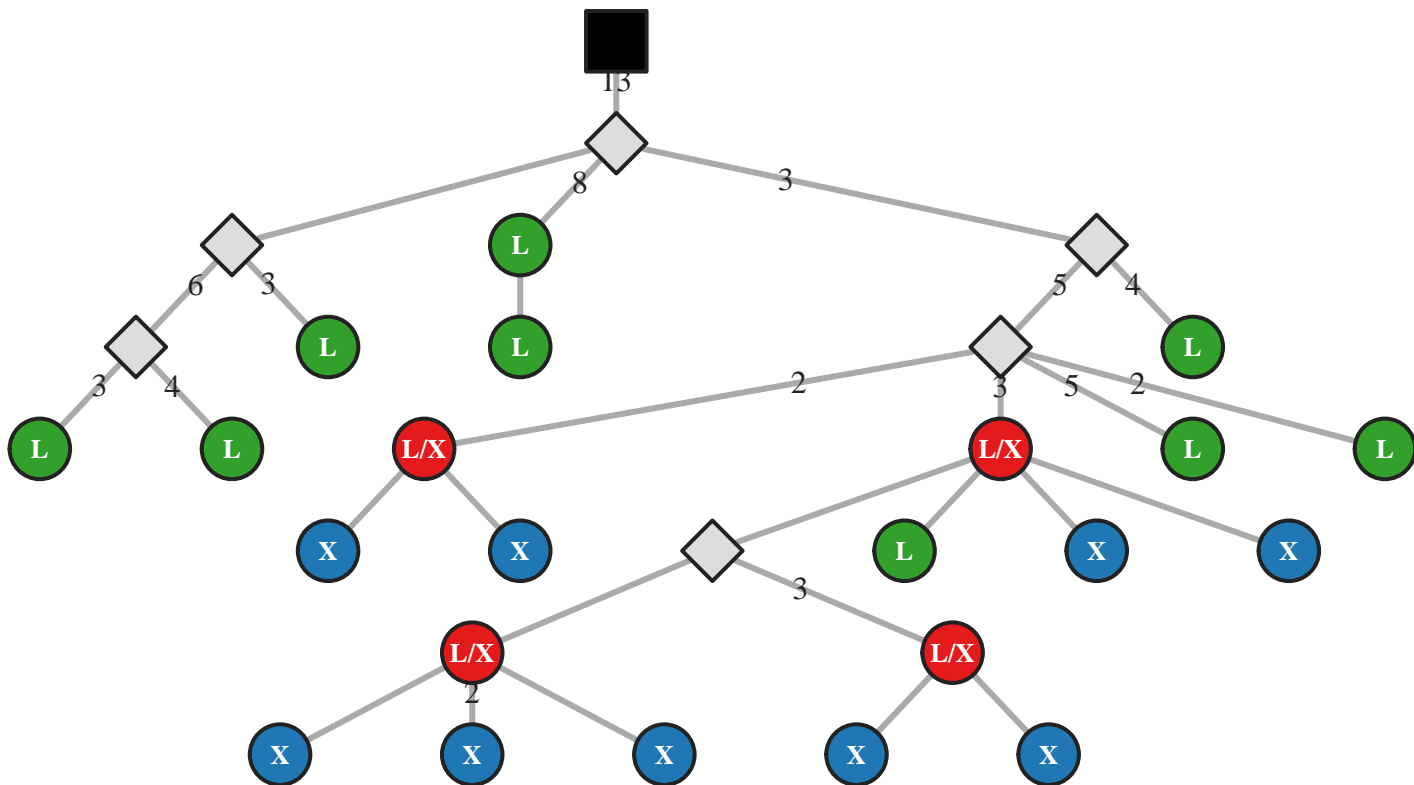
M3 IgG IGHV4-30-4/J5 69bp (7732)



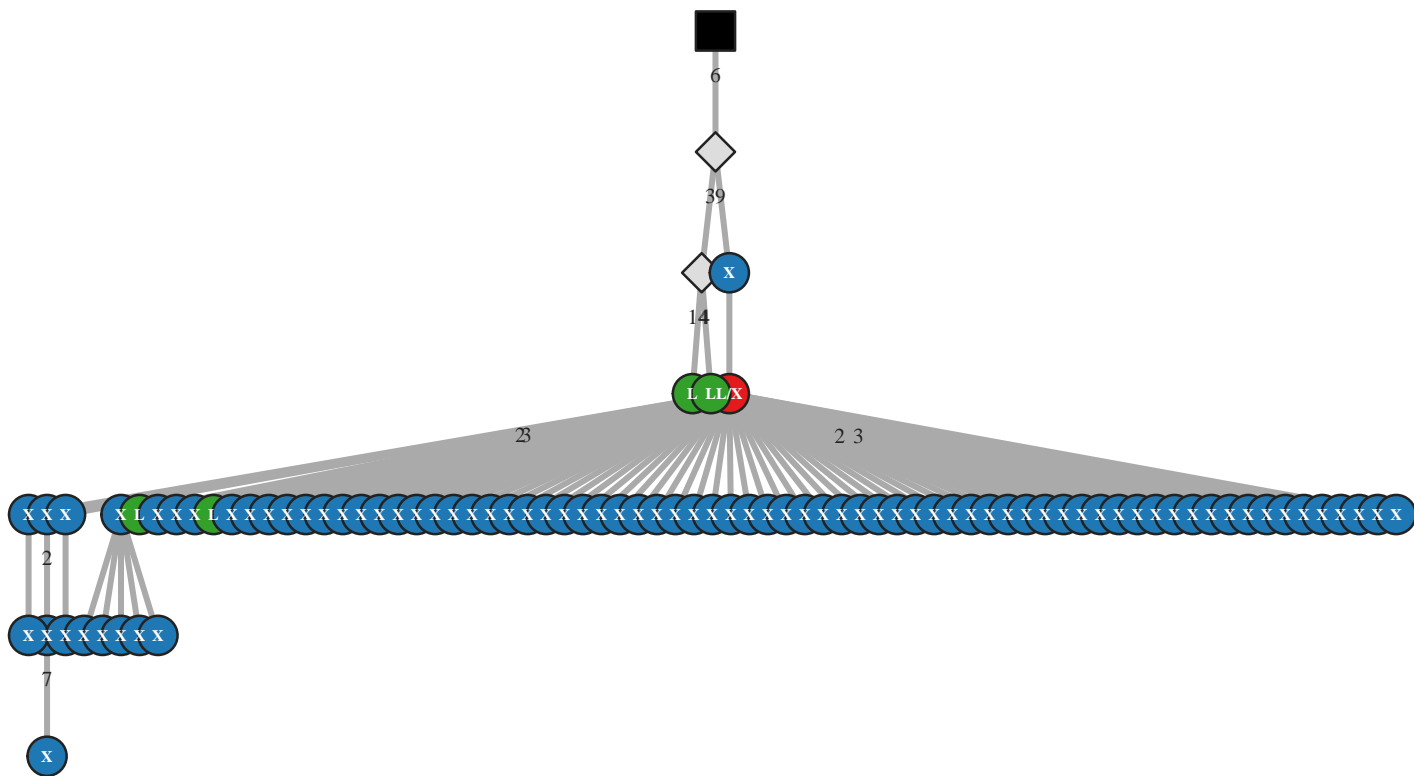
M3 IgG IGHV4-30-4/J6 63bp (3879)



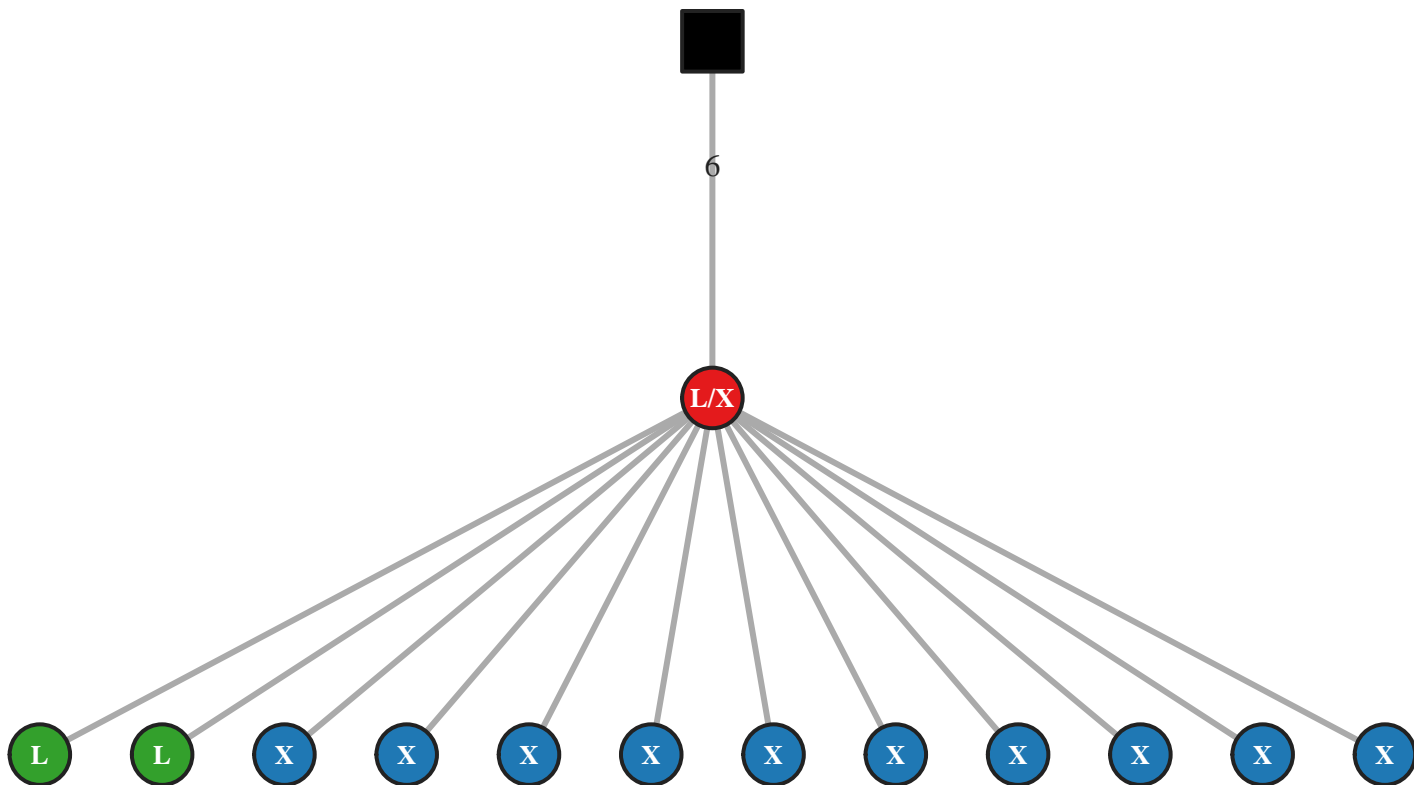
M3 IgG IGHV4-30-4/J6 63bp (3882)



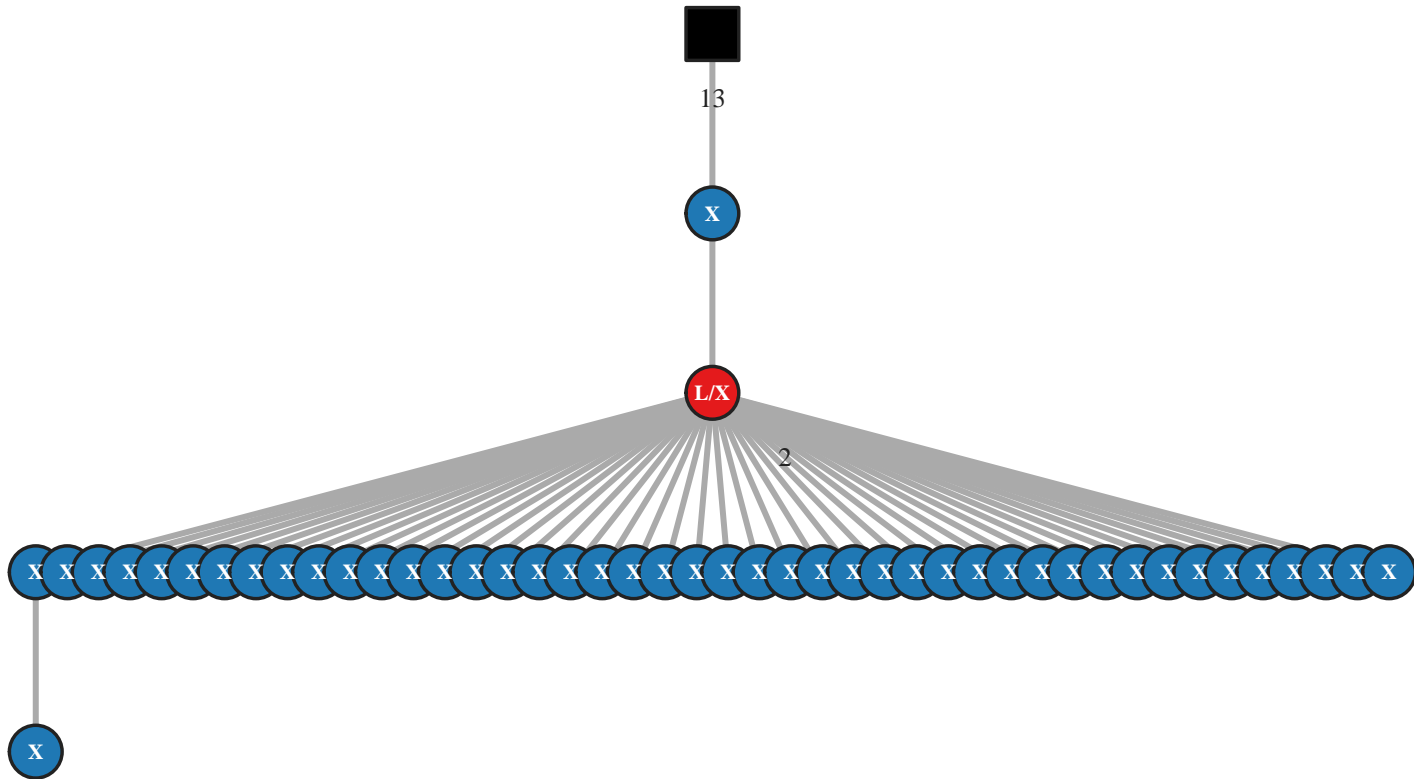
M3 IgG IGHV4-30-4/J6 63bp (3883)



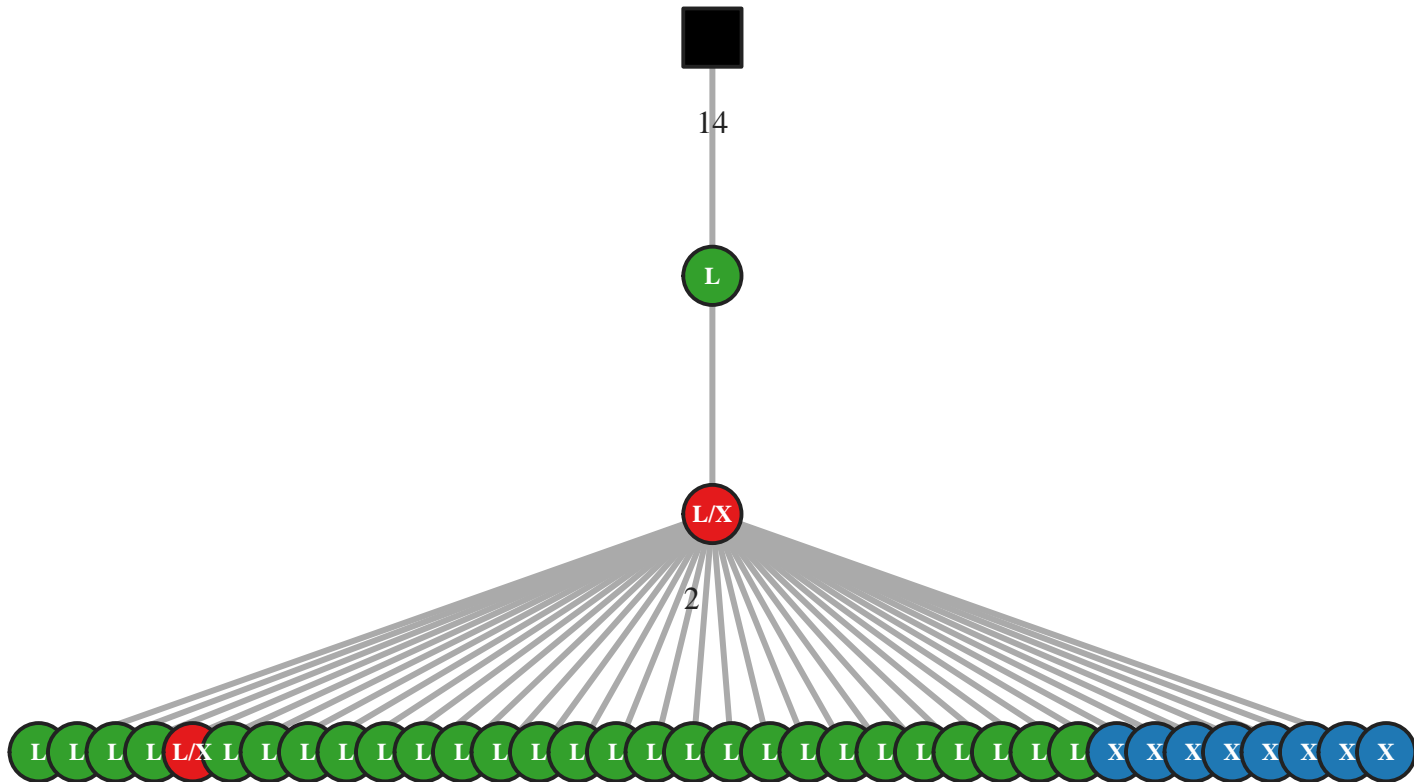
M3 IgG IGHV4-30-4/J6 72bp (3893)



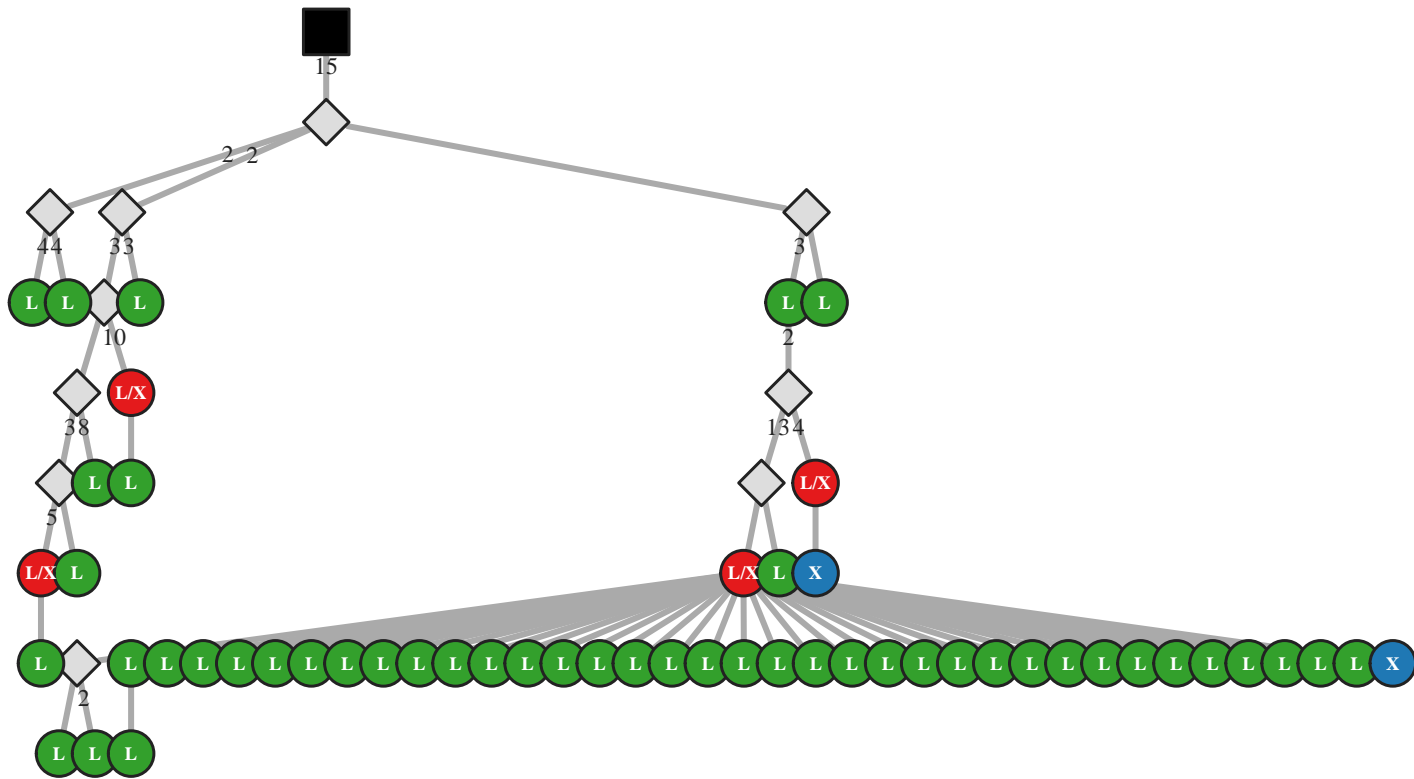
M3 IgG IGHV4-30-4/J6 75bp (3898)



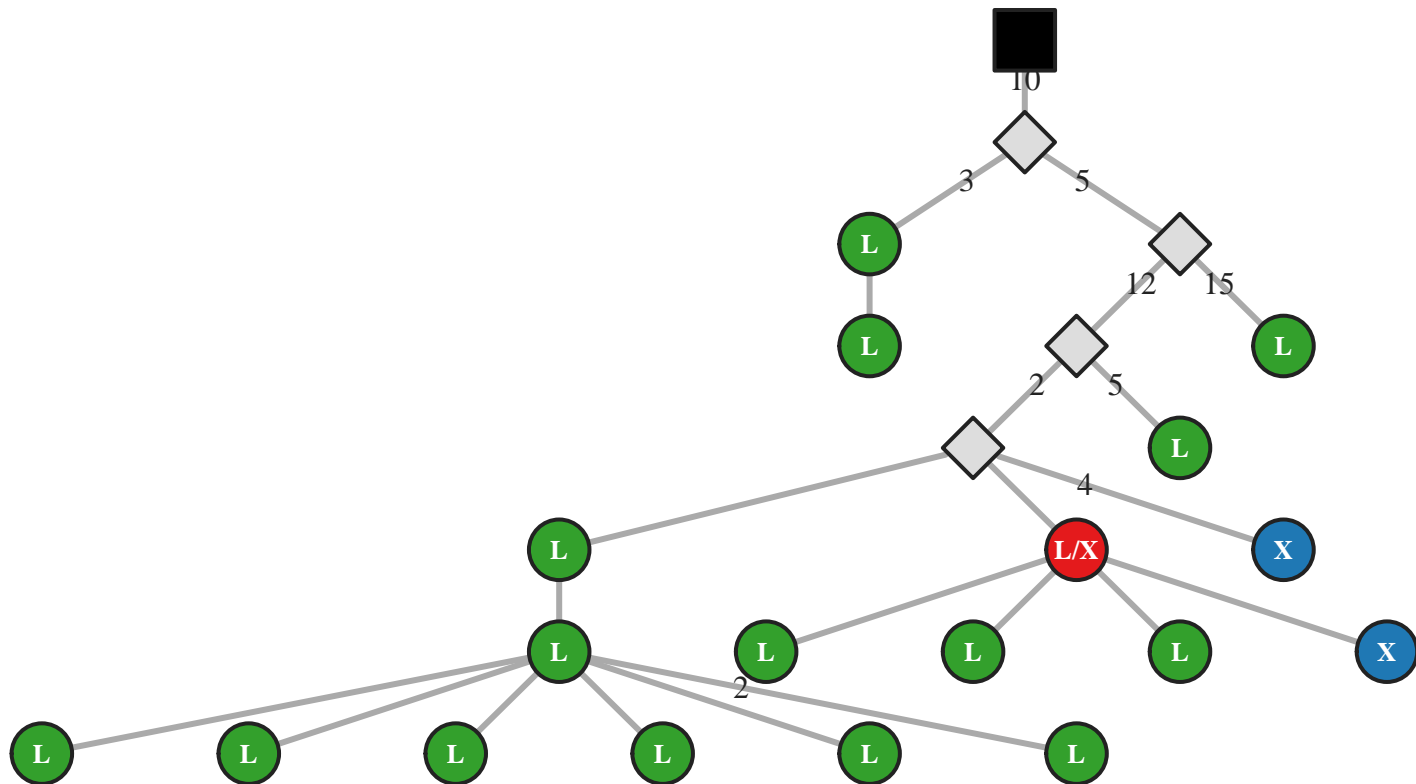
M3 IgG IGHV4-31/J2 39bp (3929)



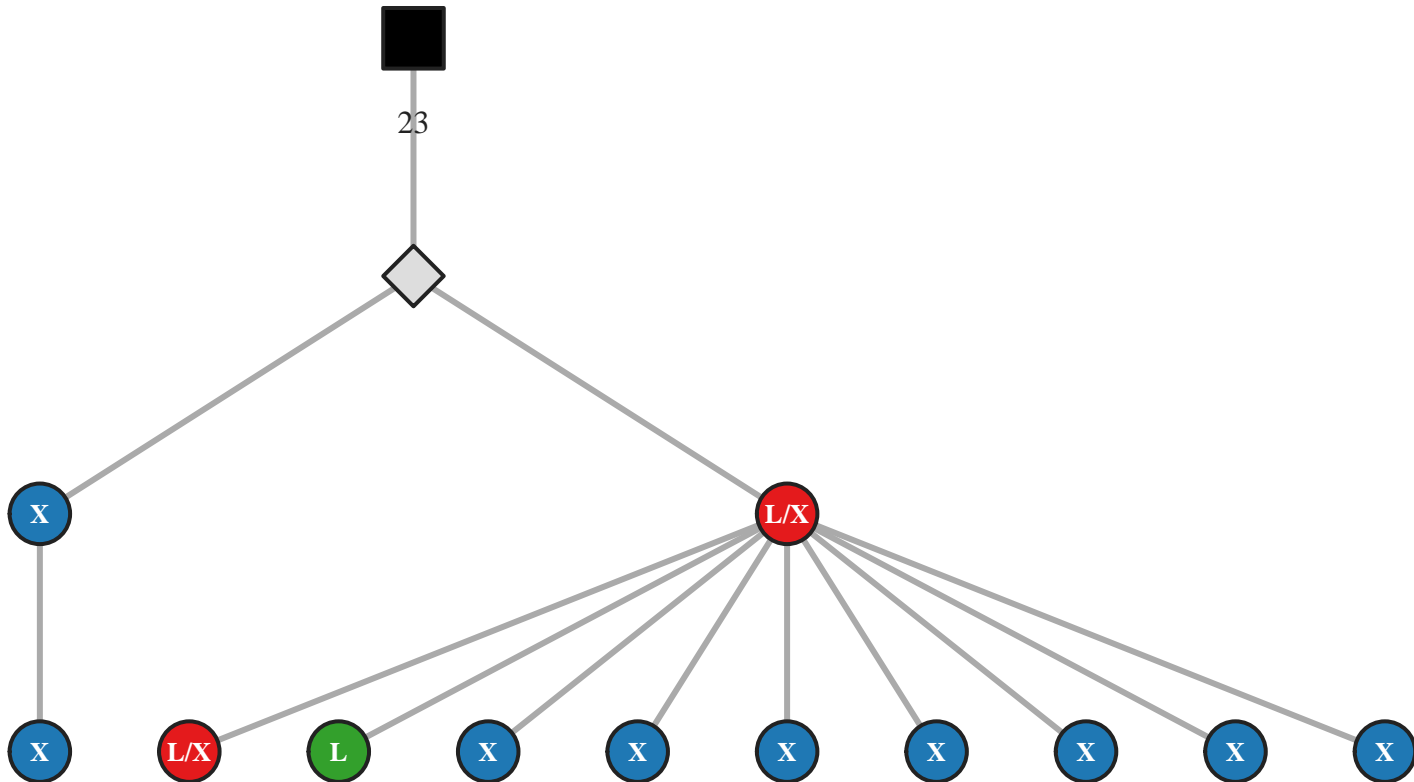
M3 IgG IGHV4-31/J3 48bp (3935)



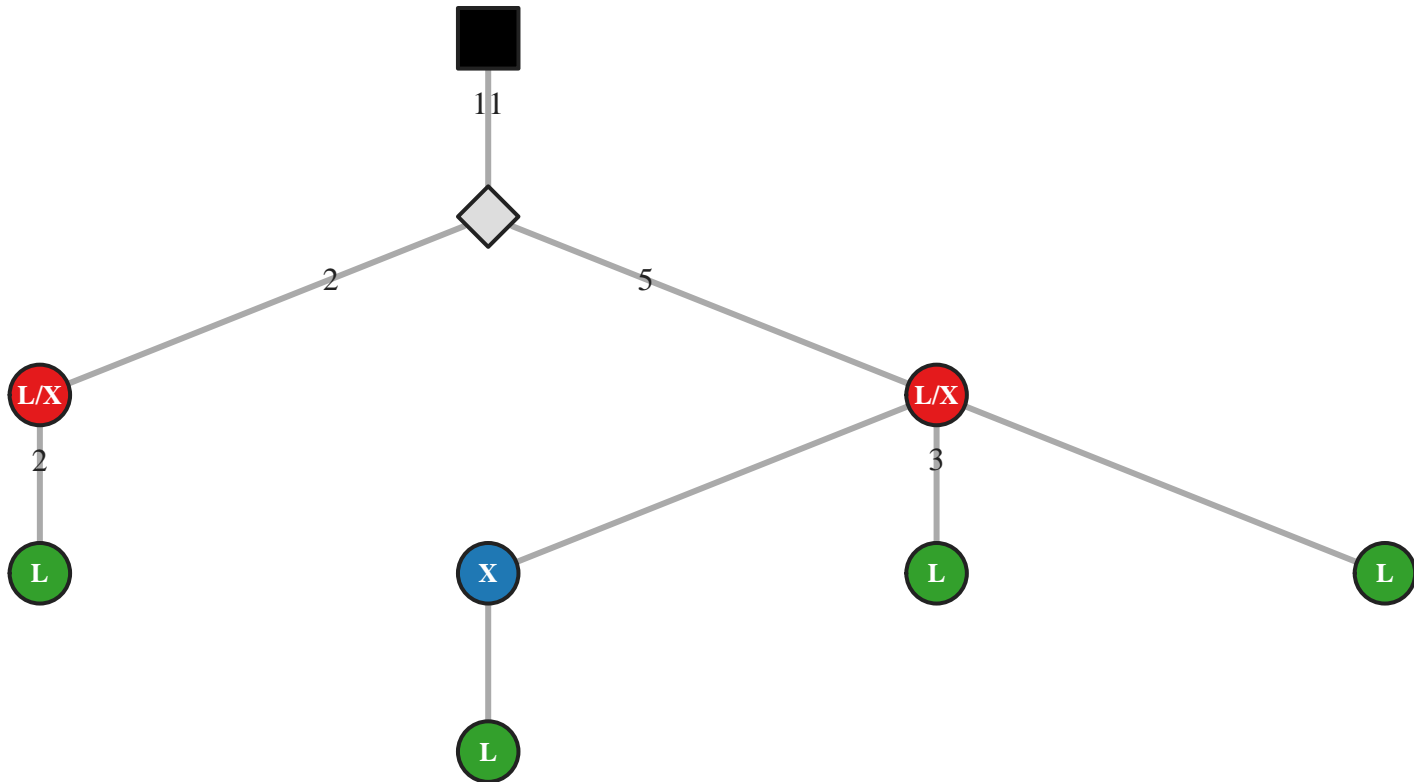
M3 IgG IGHV4-31/J3 48bp (3937)



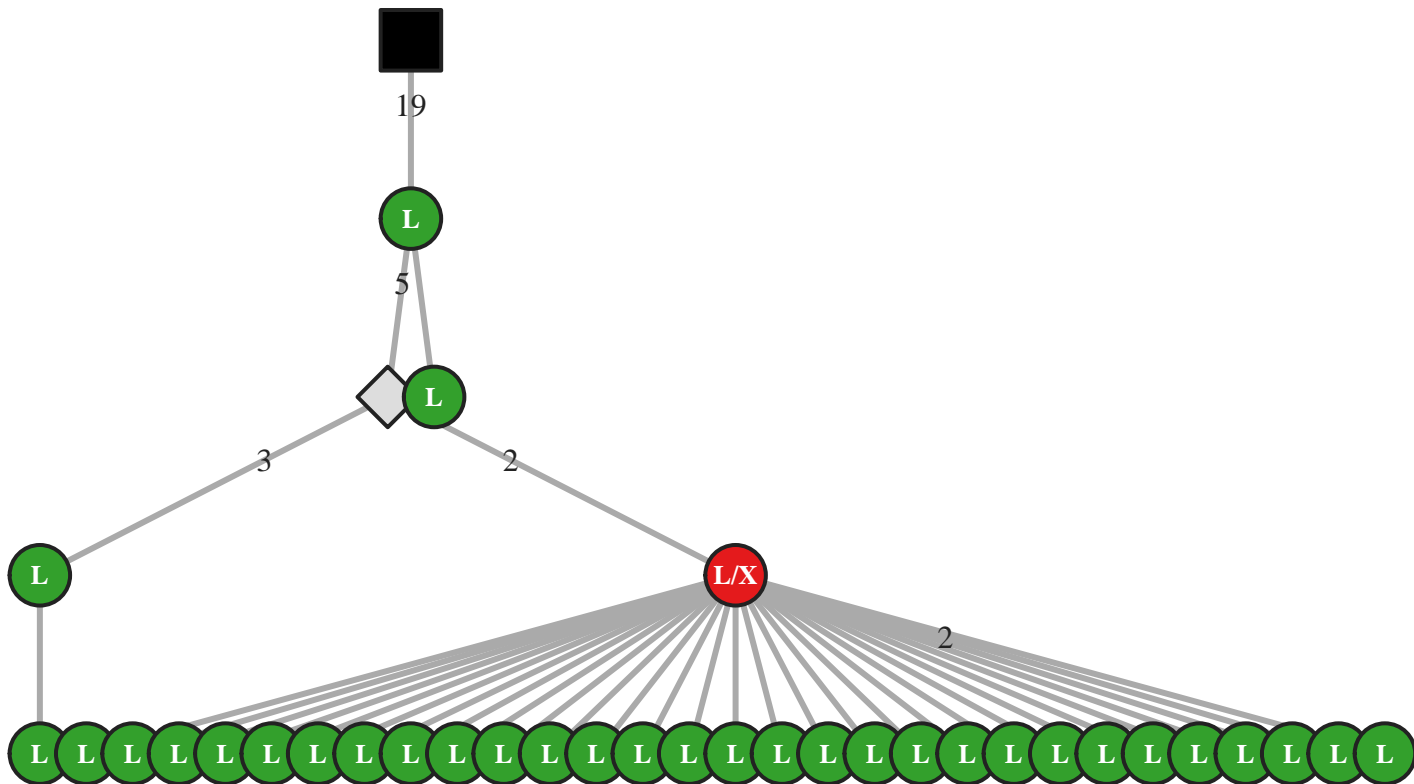
M3 IgG IGHV4-31/J3 48bp (3940)



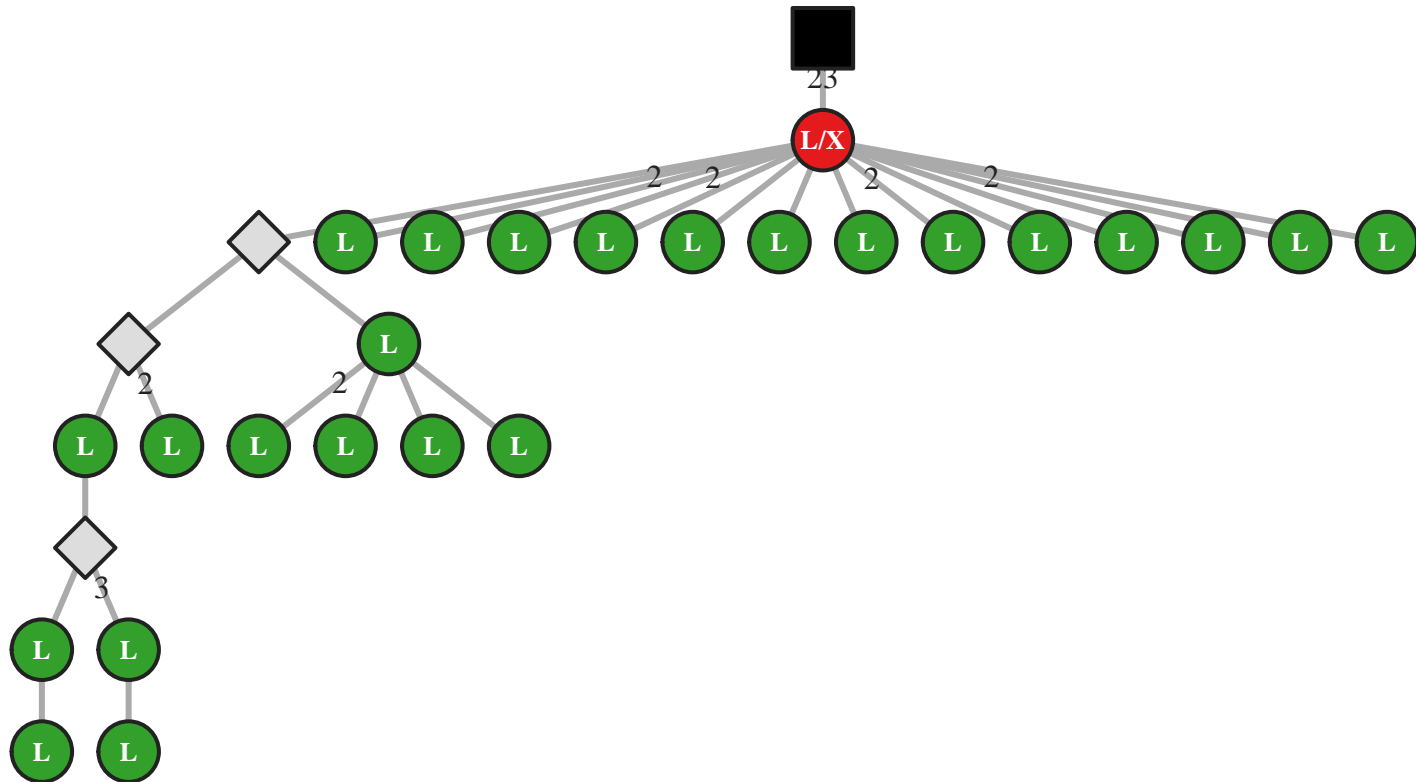
M3 IgG IGHV4-31/J3 63bp (7736)



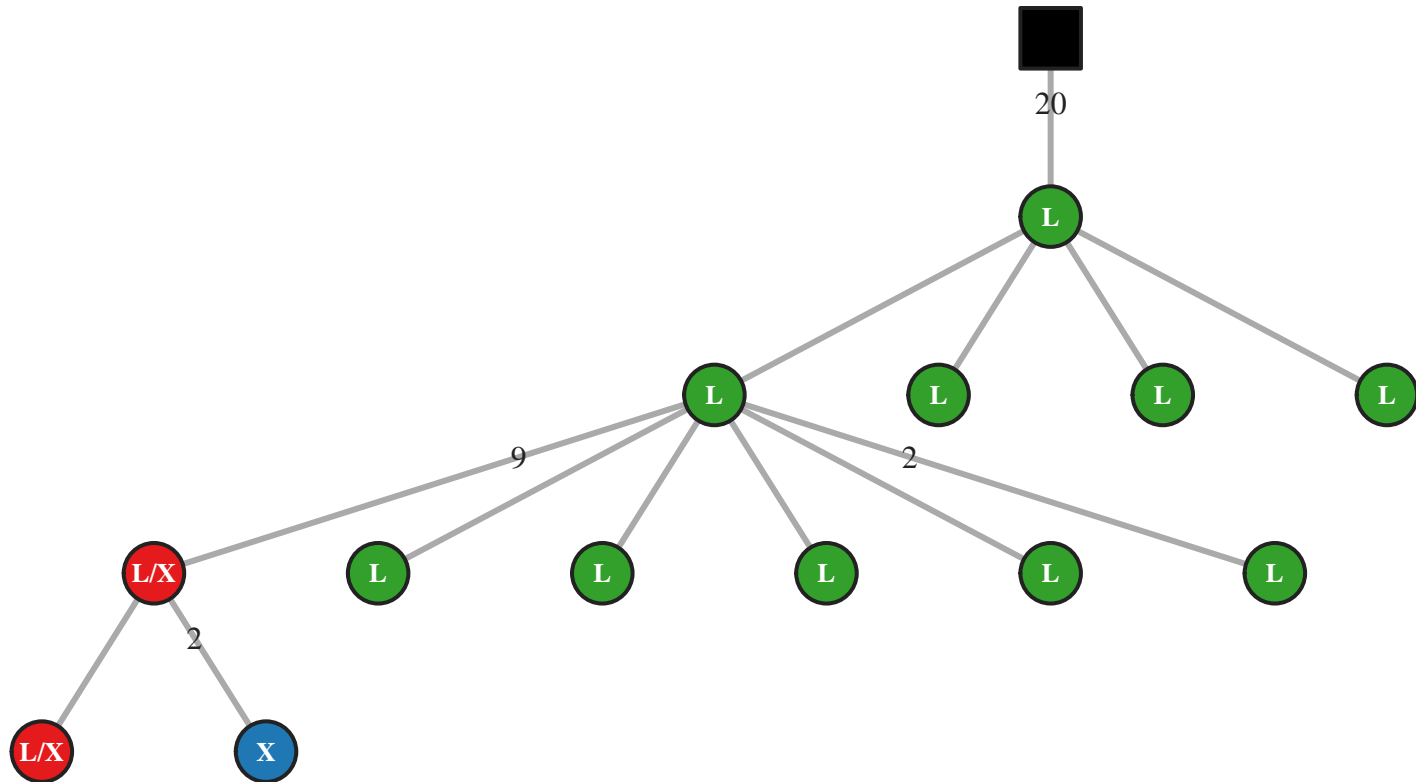
M3 IgG IGHV4-31/J4 48bp (3903)



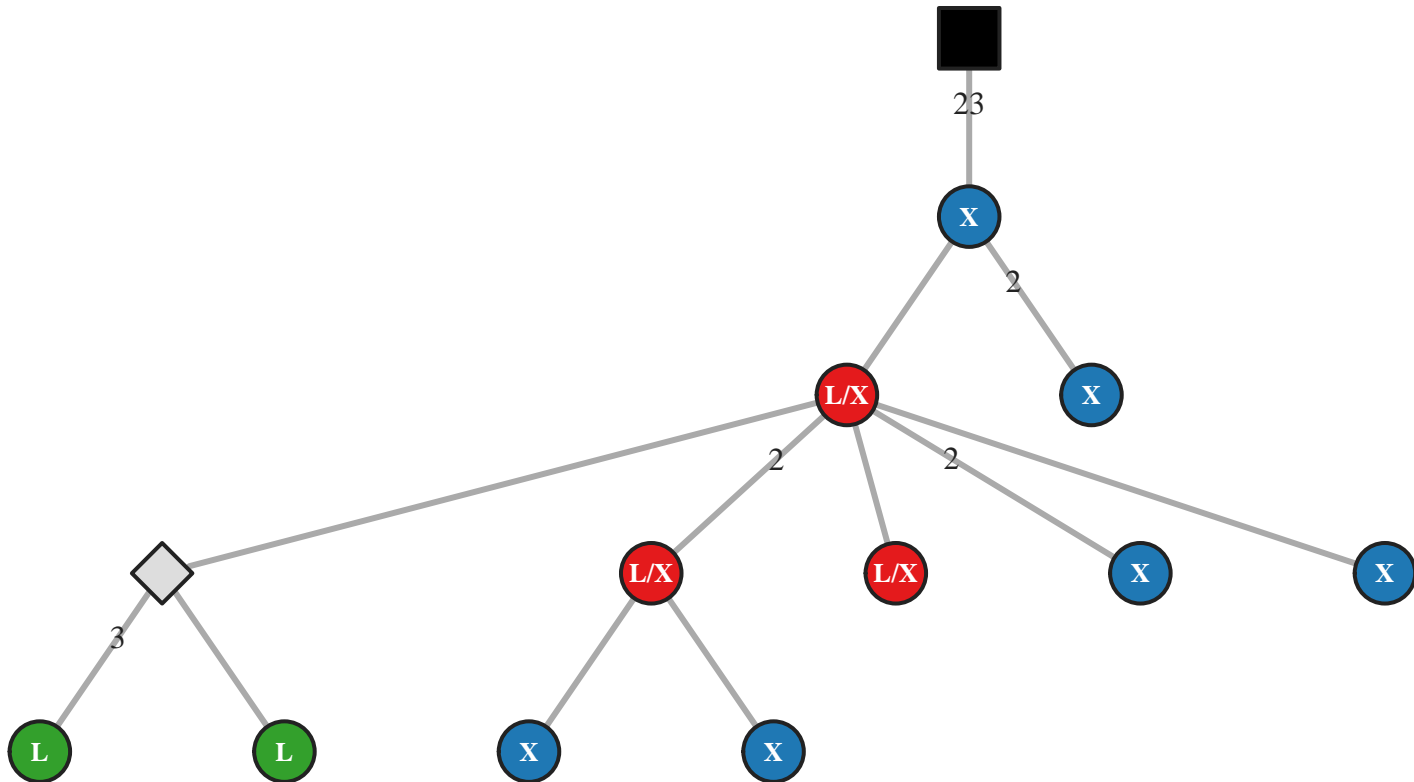
M3 IgG IGHV4-31/J4 48bp (3910)



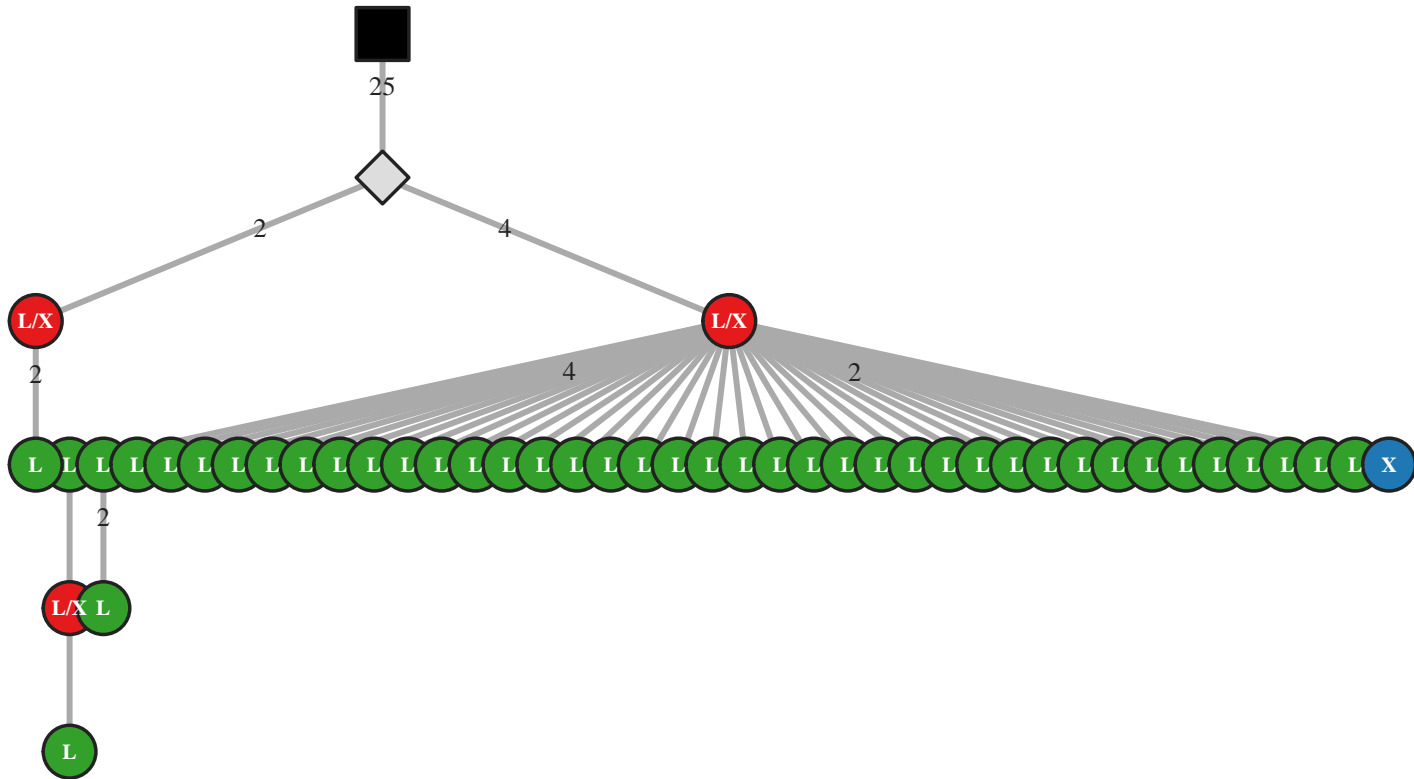
M3 IgG IGHV4-31/J4 51bp (7744)



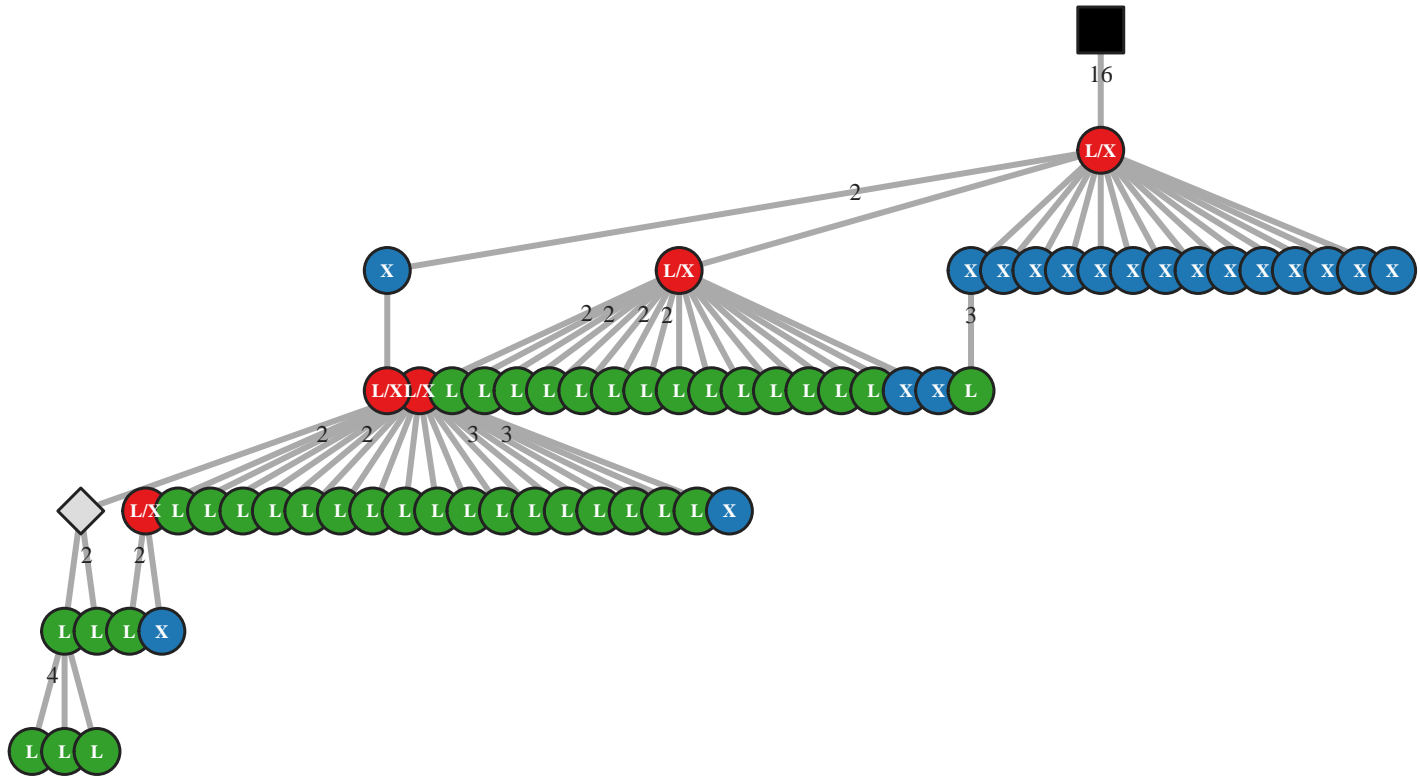
M3 IgG IGHV4-31/J4 51bp (7748)



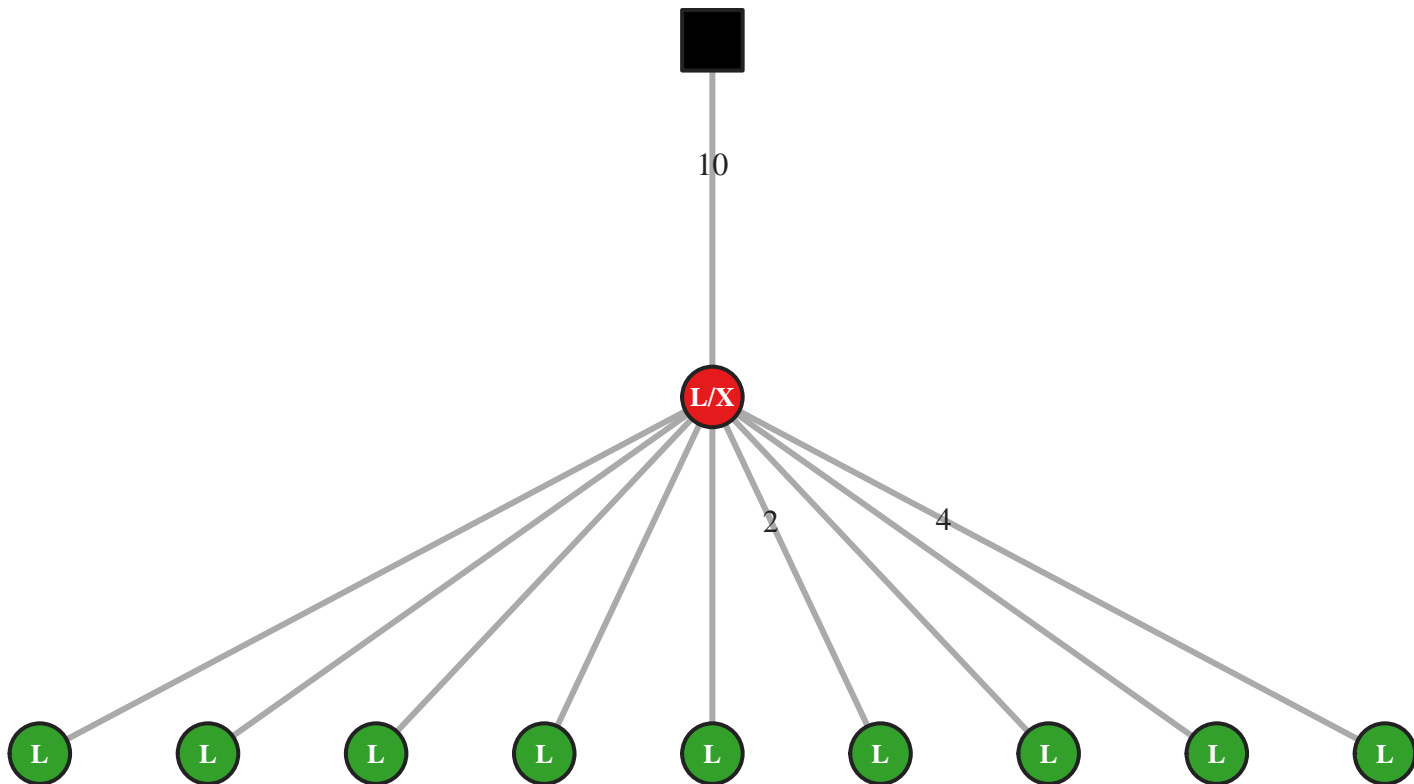
M3 IgG IGHV4-31/J4 54bp (7749)



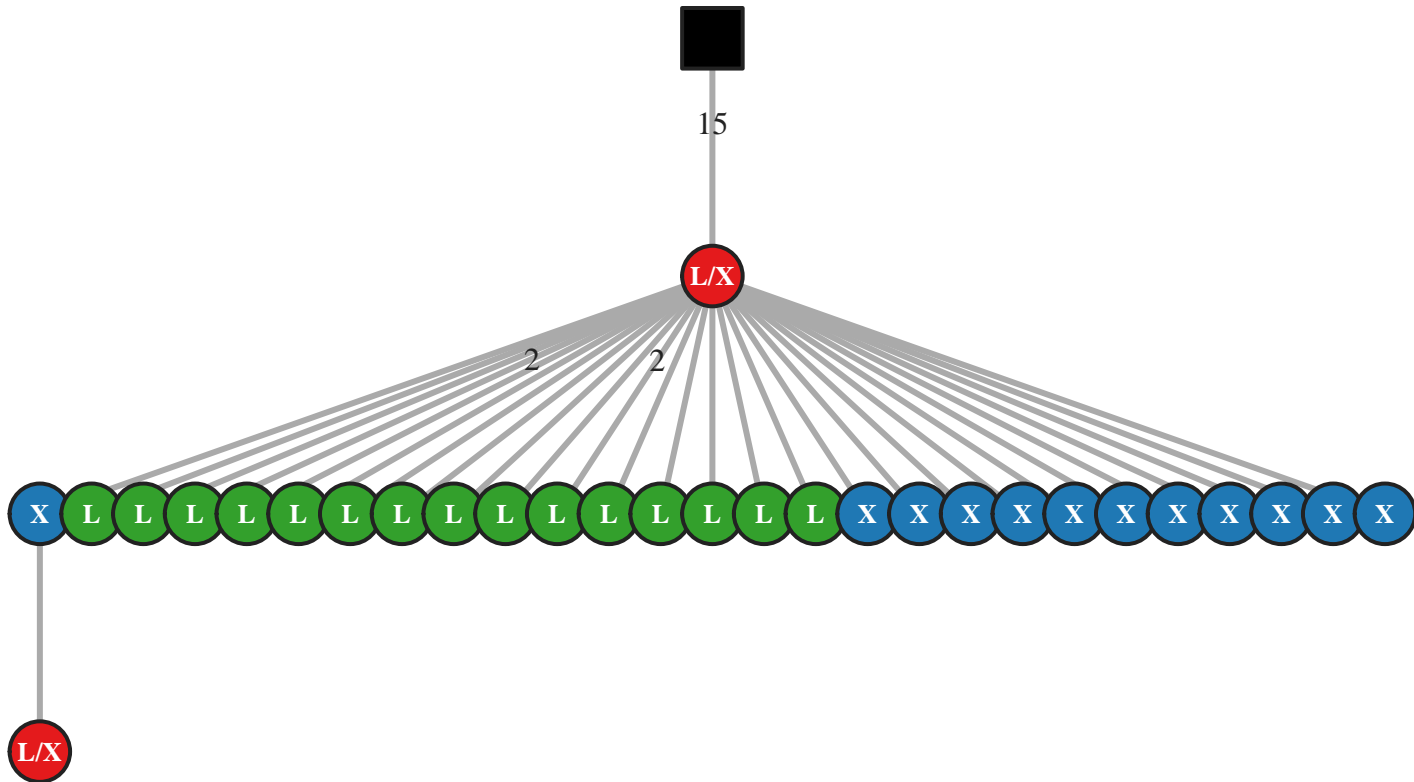
M3 IgG IGHV4-31/J4 57bp (15136)



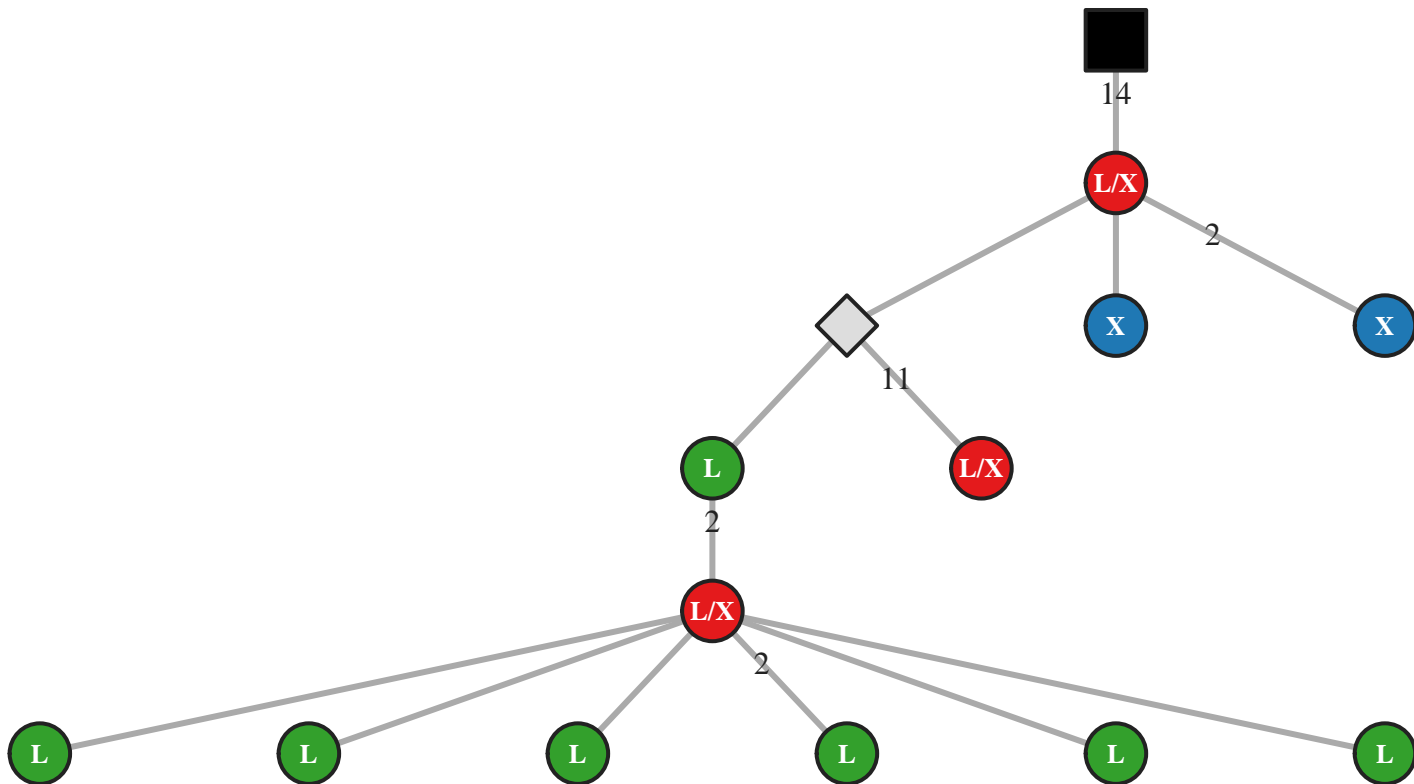
M3 IgG IGHV4-31/J4 57bp (15138)



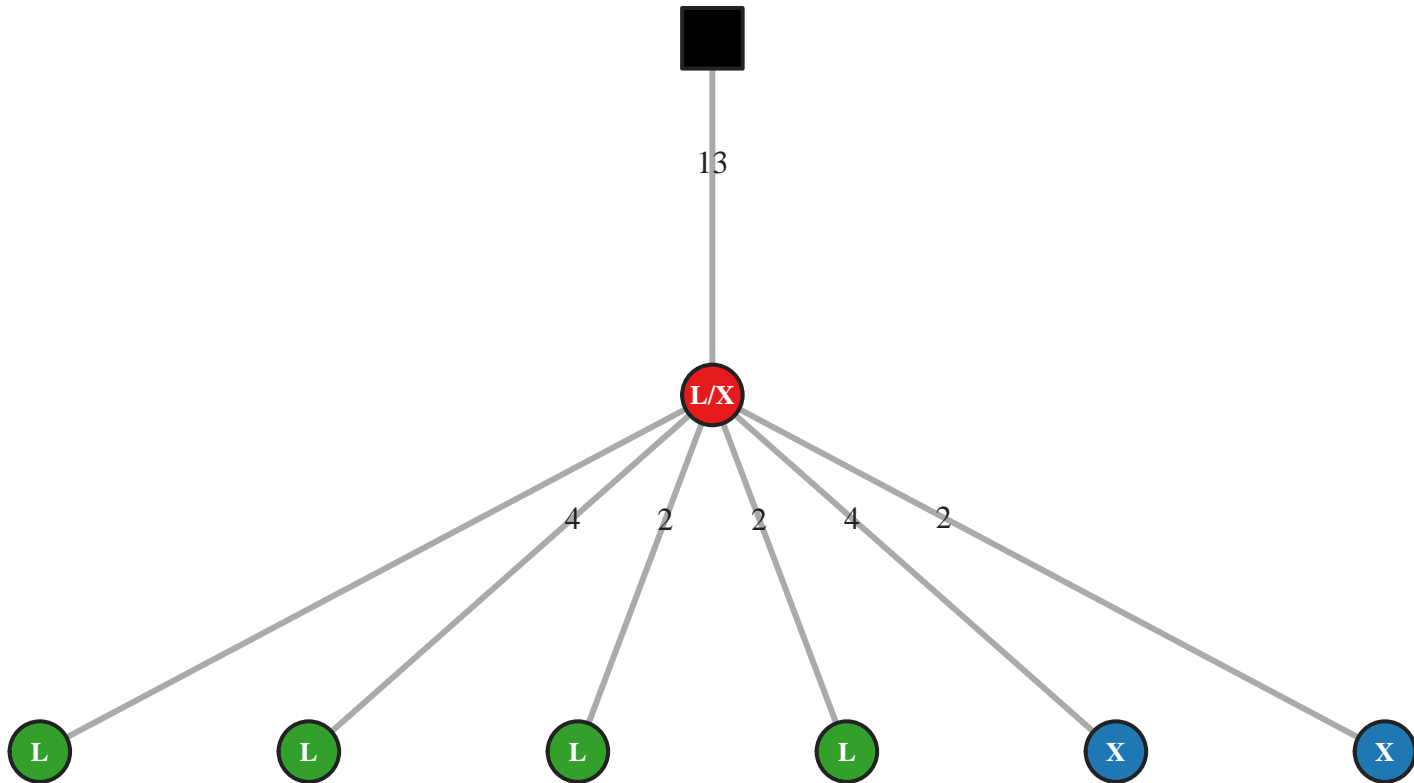
M3 IgG IGHV4-31/J4 60bp (11991)



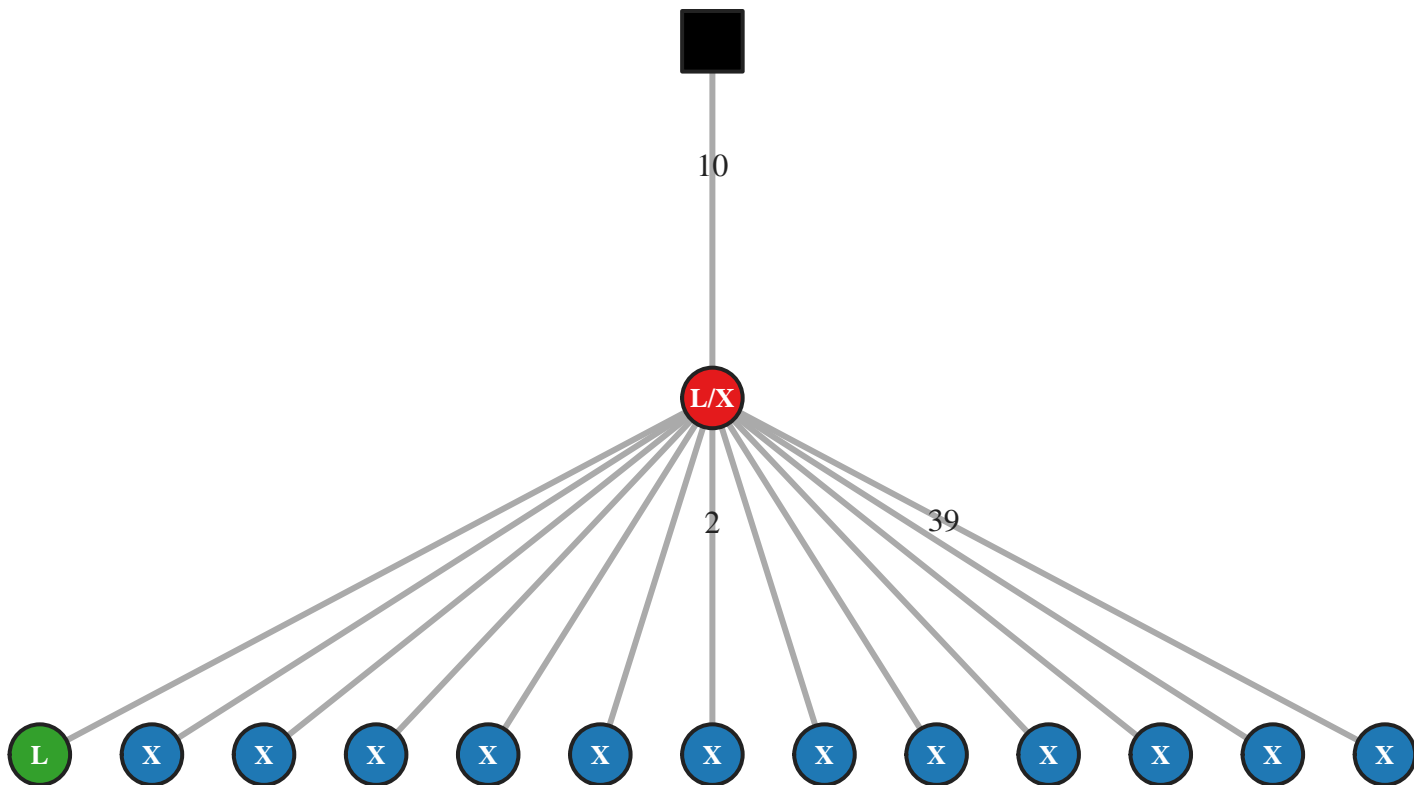
M3 IgG IGHV4-31/J4 63bp (15147)



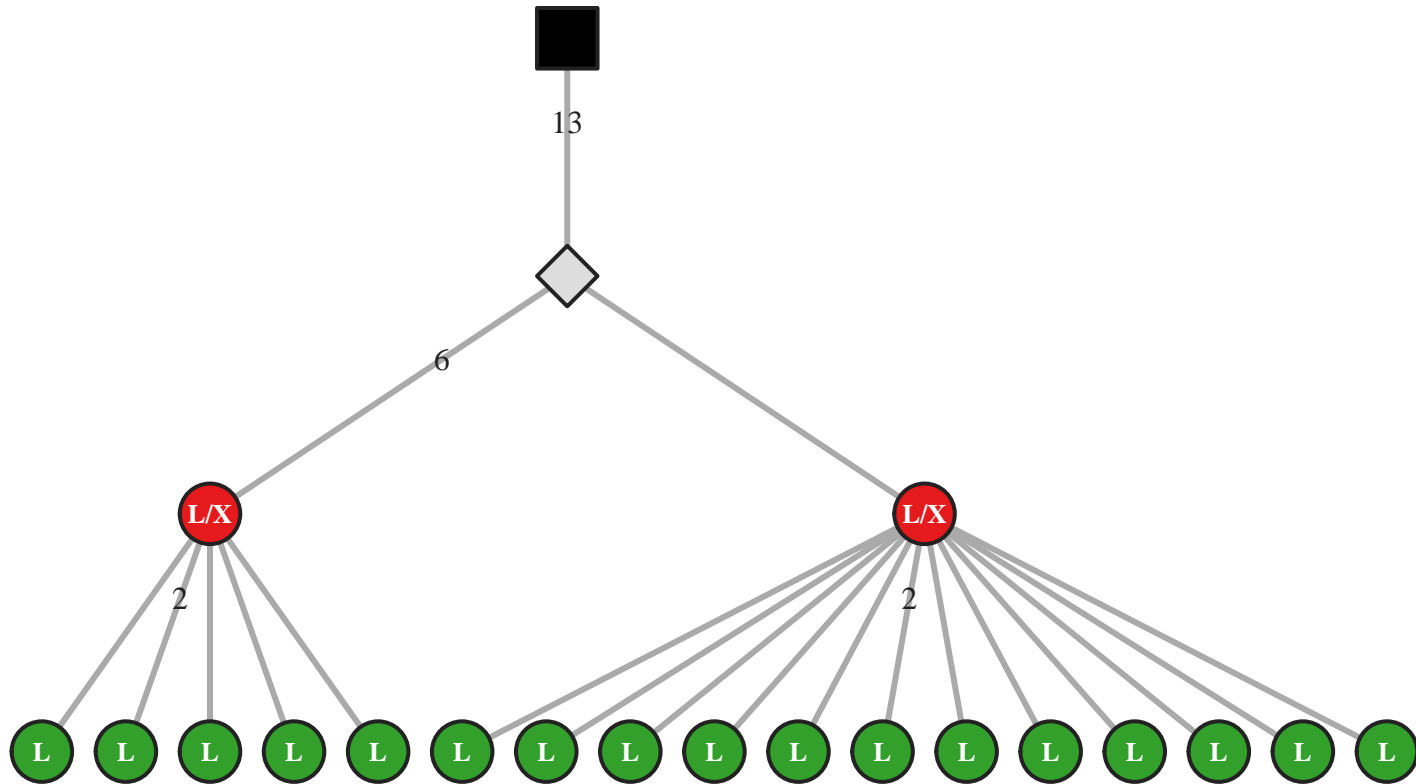
M3 IgG IGHV4-31/J4 69bp (3959)



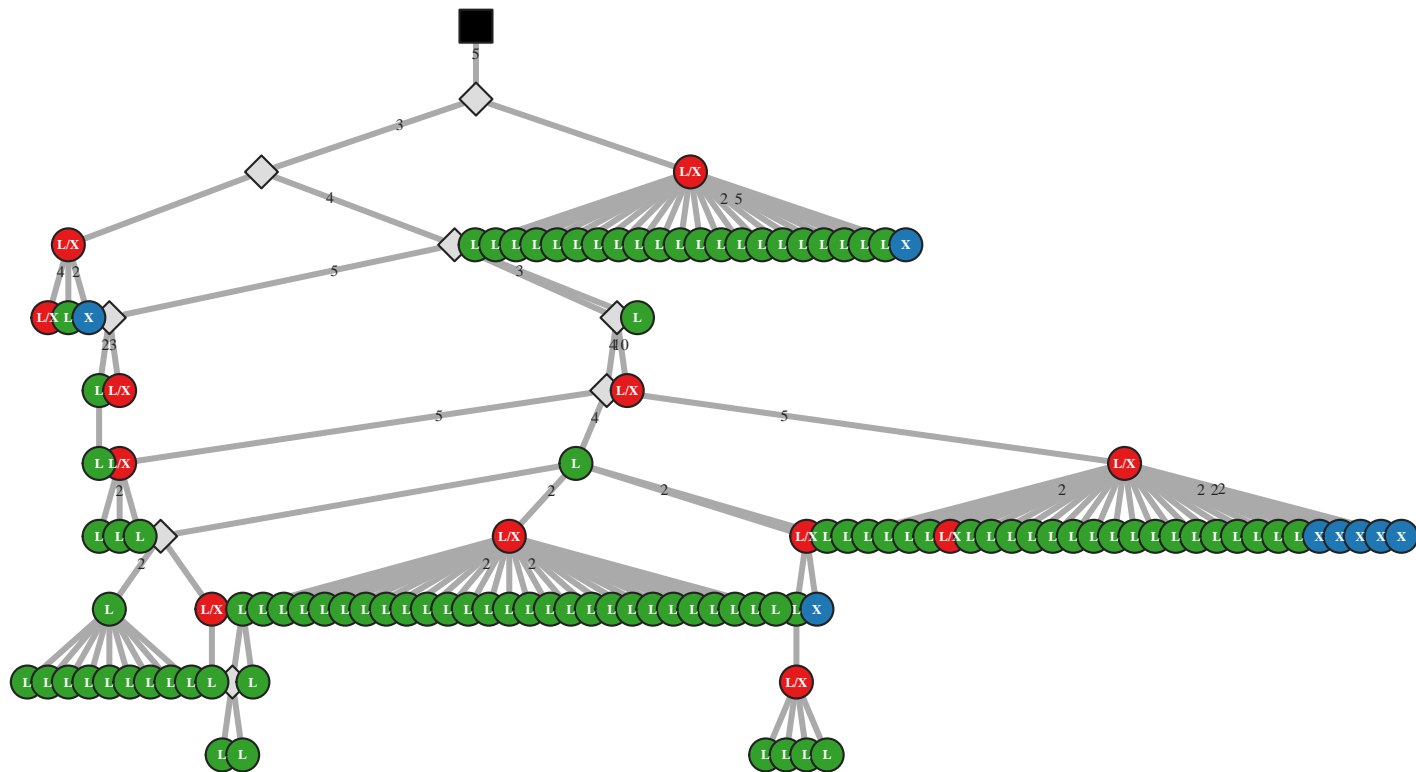
M3 IgG IGHV4-31/J5 48bp (12000)



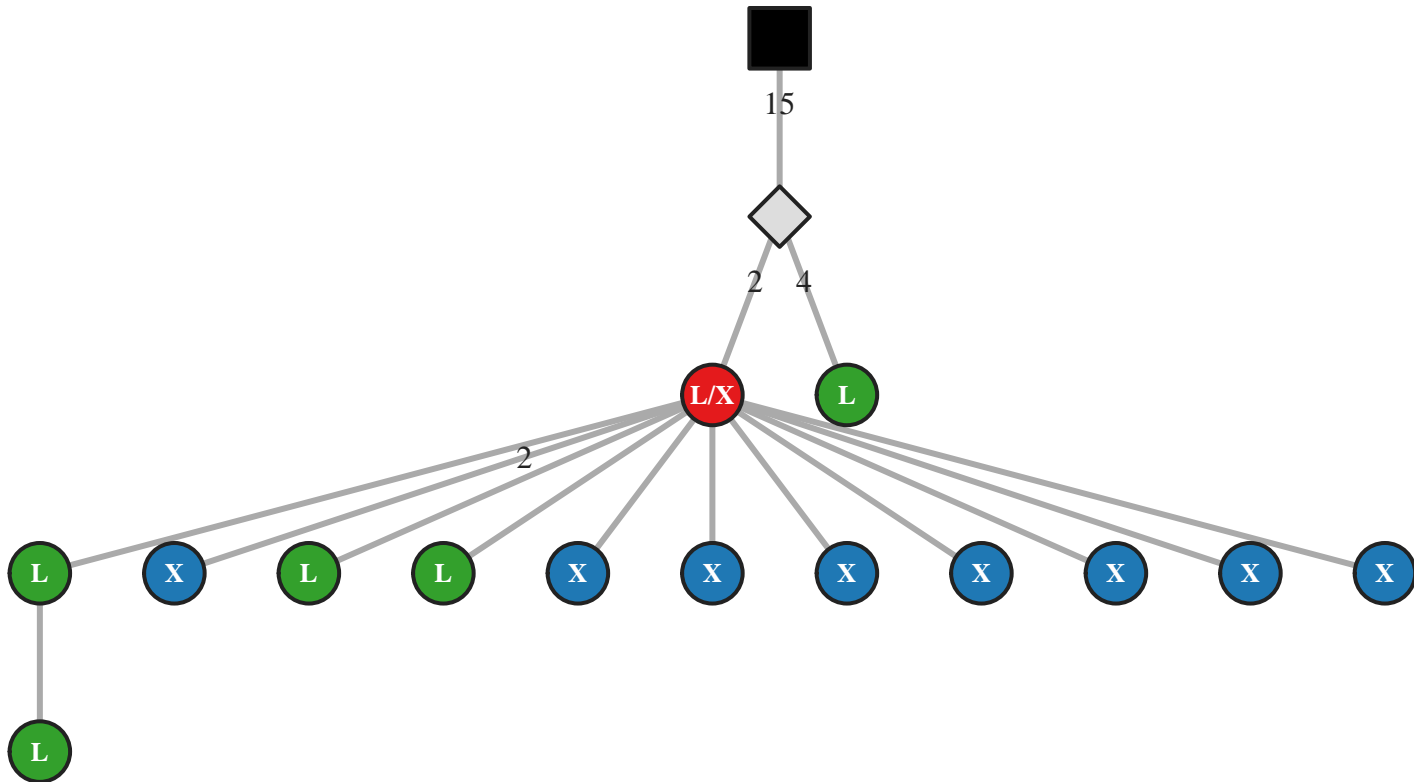
M3 IgG IGHV4-31/J5 54bp (7758)



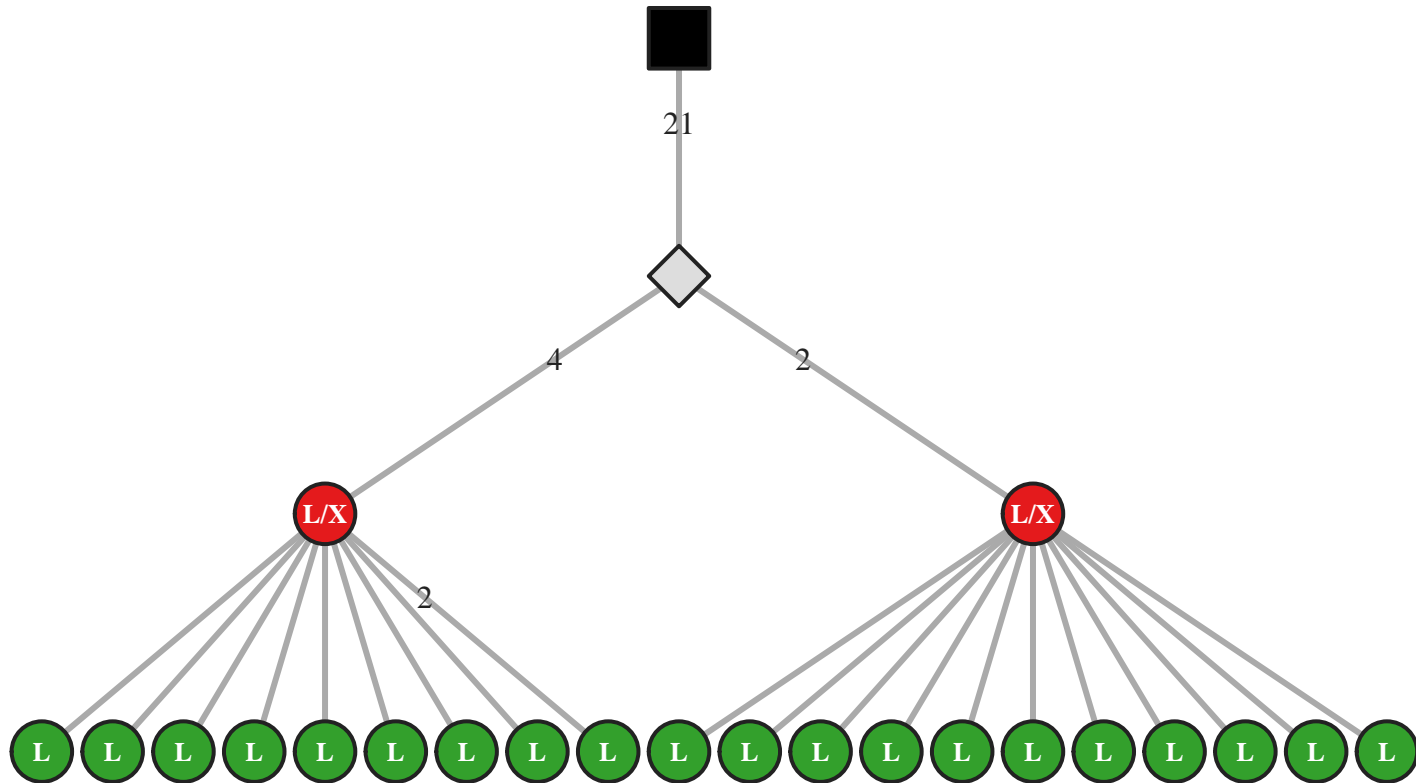
M3 IgG IGHV4-31/J5 54bp (7759)



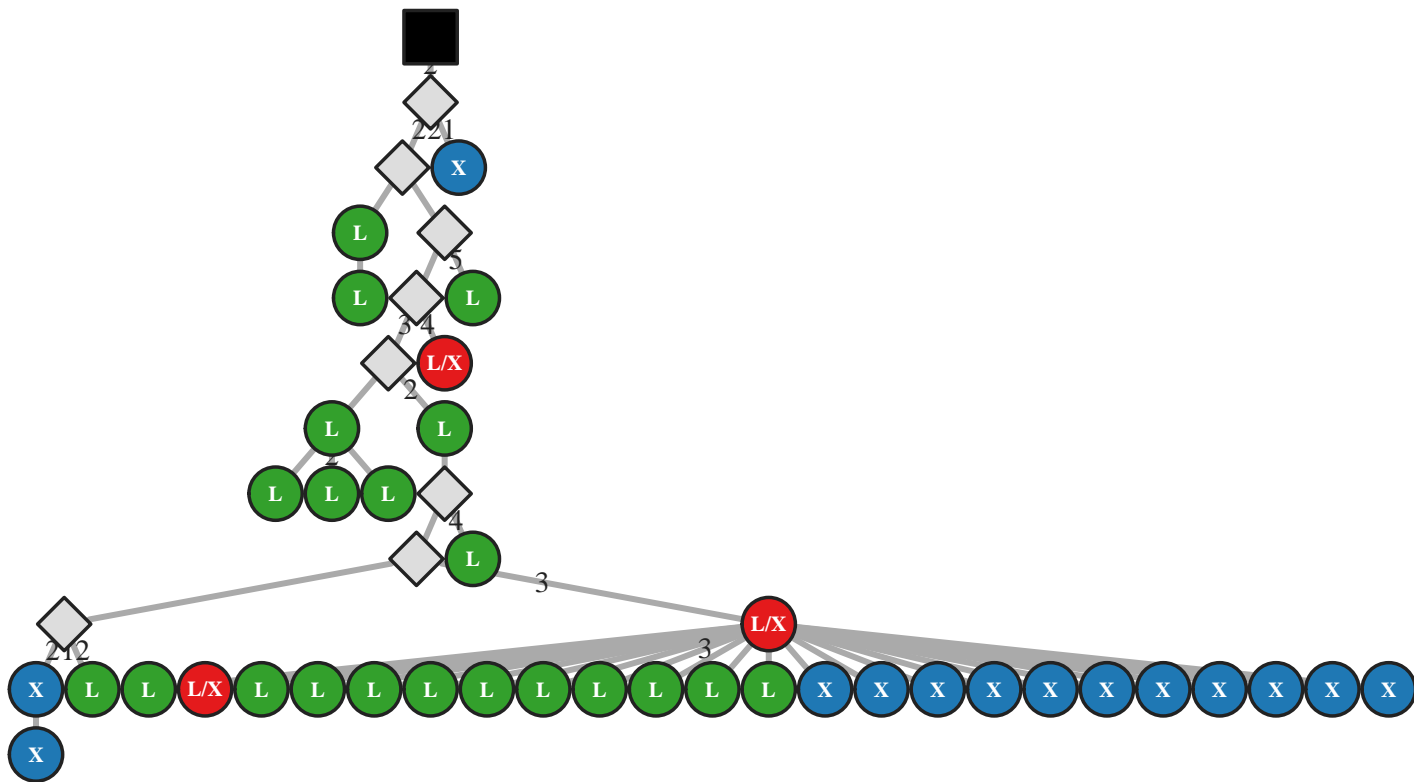
M3 IgG IGHV4-31/J5 54bp (7760)



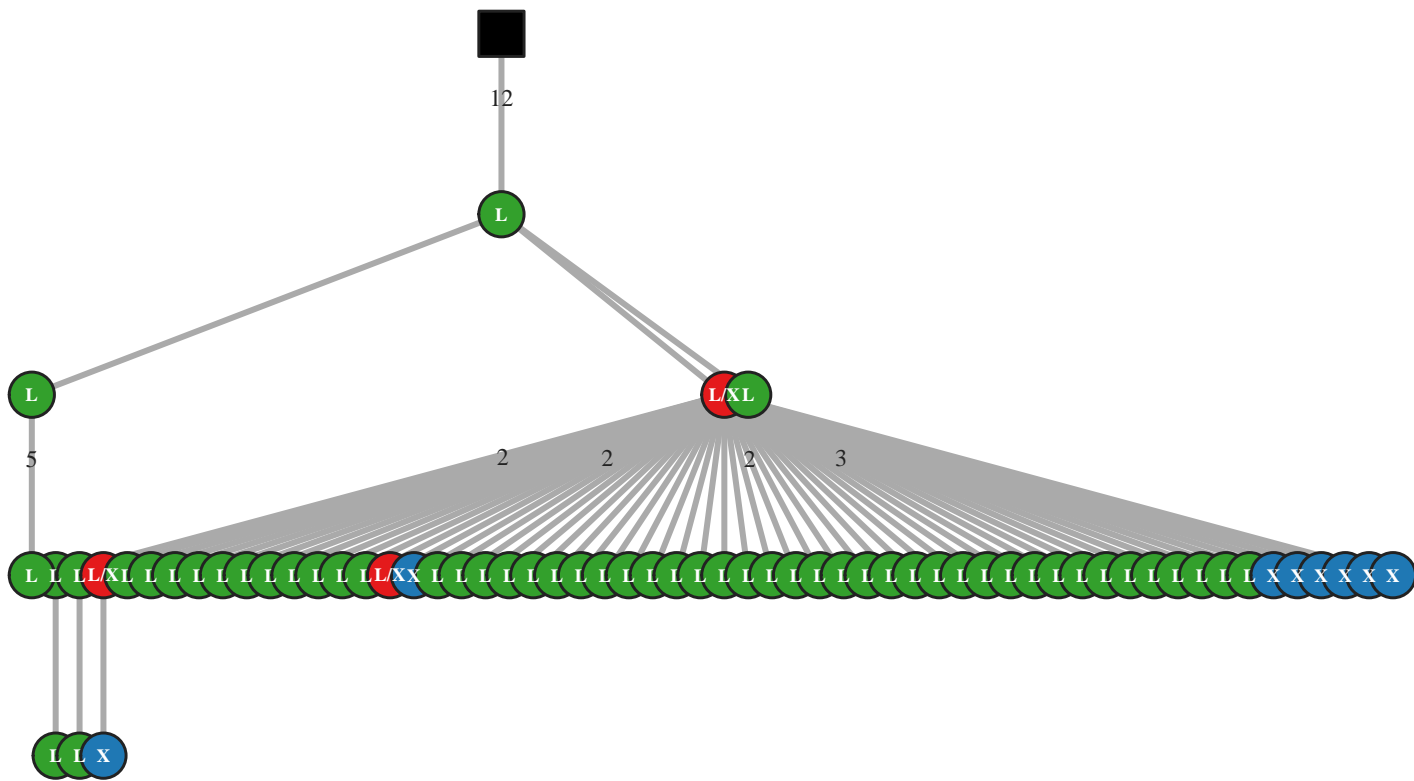
M3 IgG IGHV4-31/J5 60bp (3969)



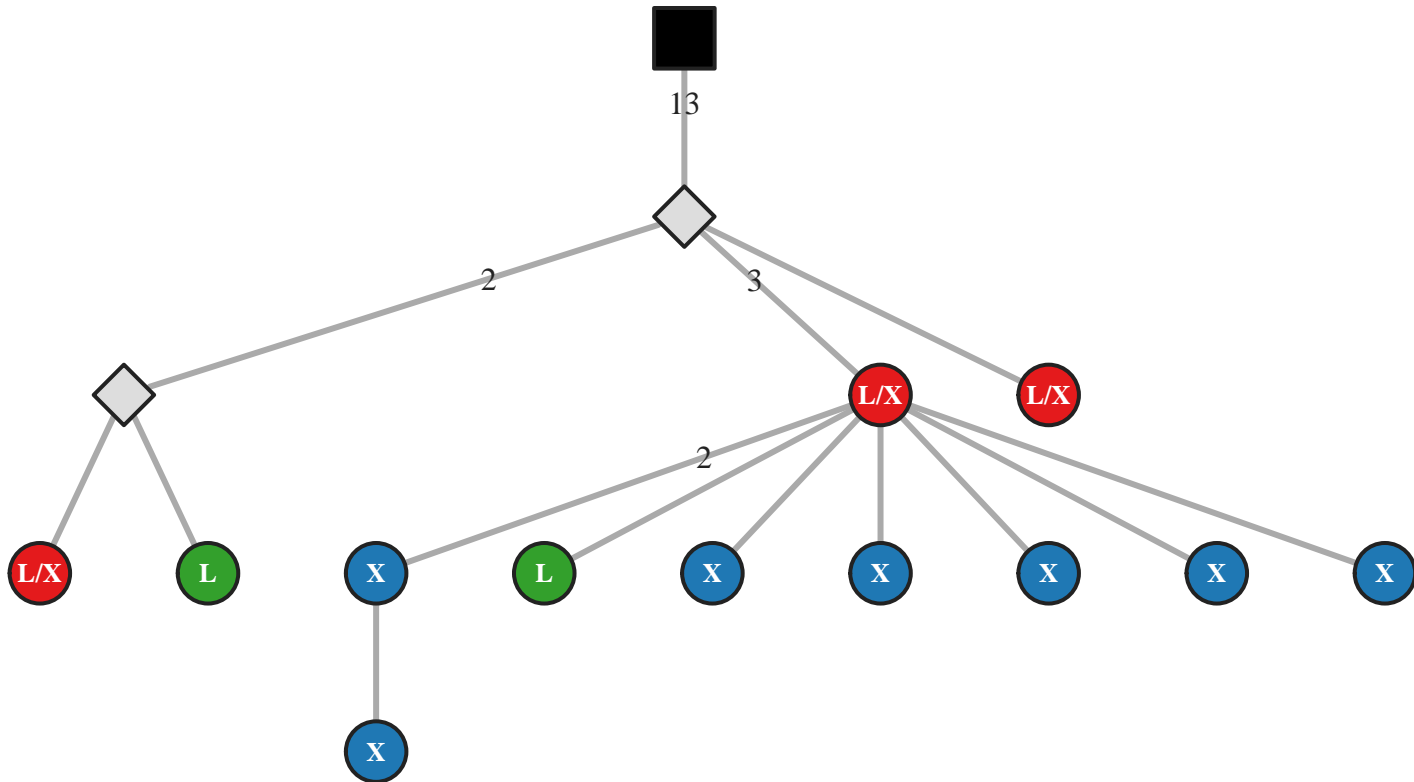
M3 IgG IGHV4-31/J5 63bp (12006)



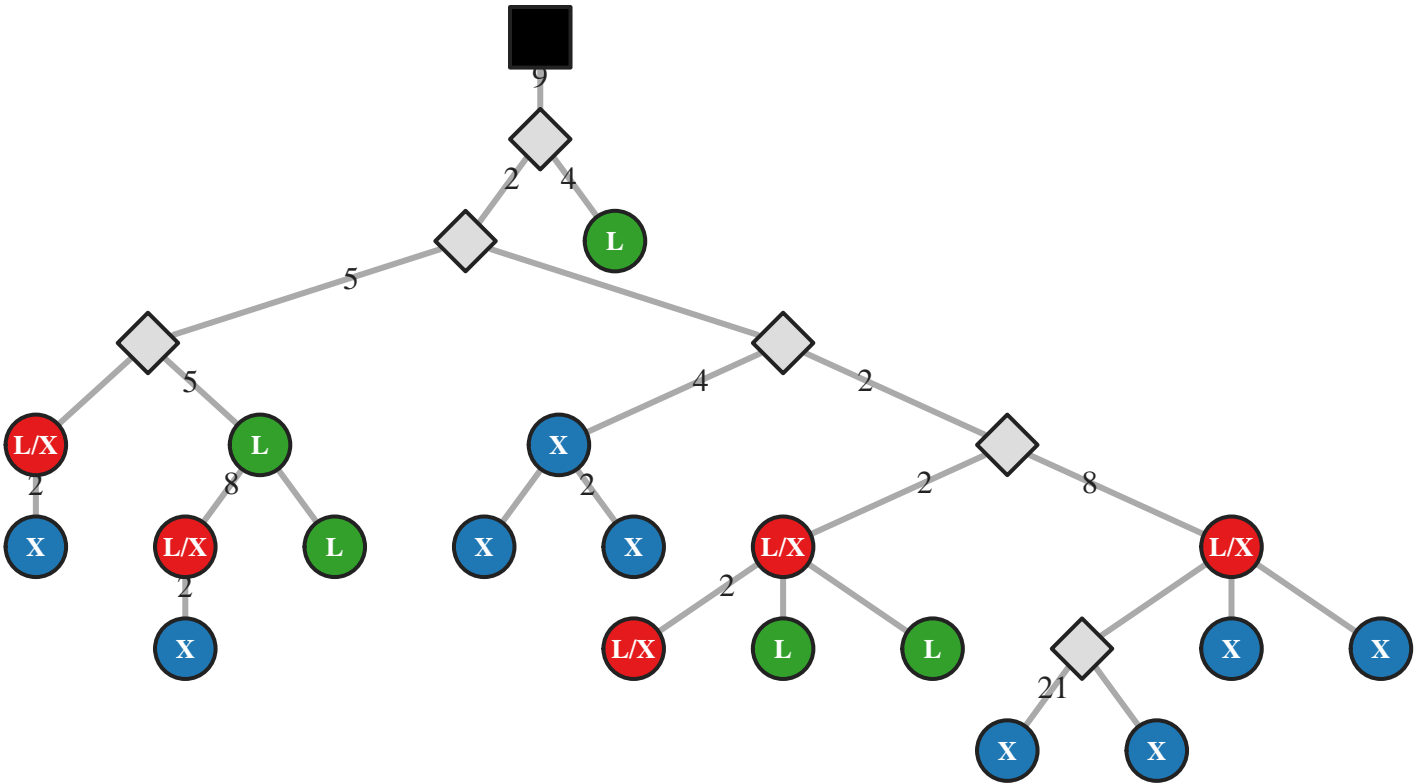
M3 IgG IGHV4-31/J5 63bp (12007)



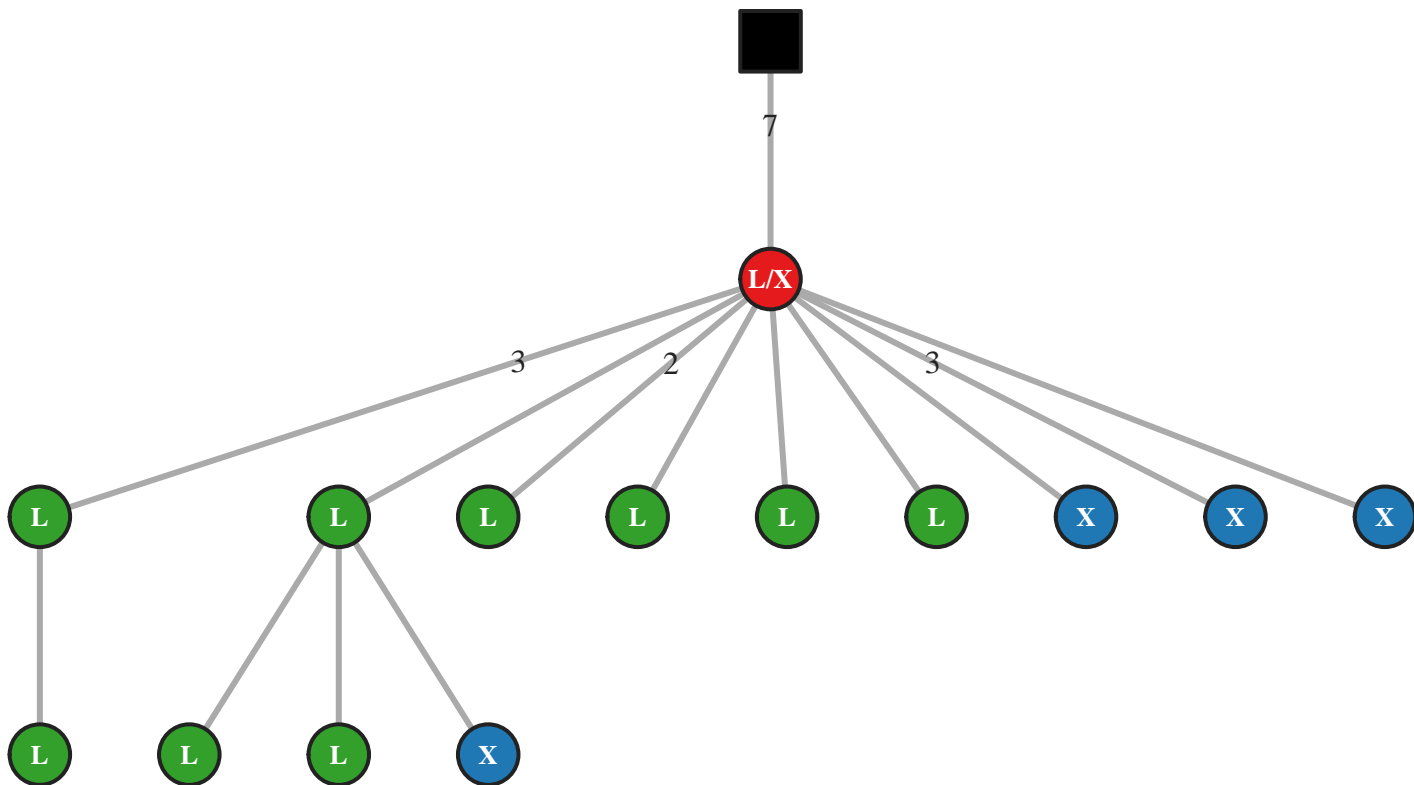
M3 IgG IGHV4-31/J5 69bp (12013)



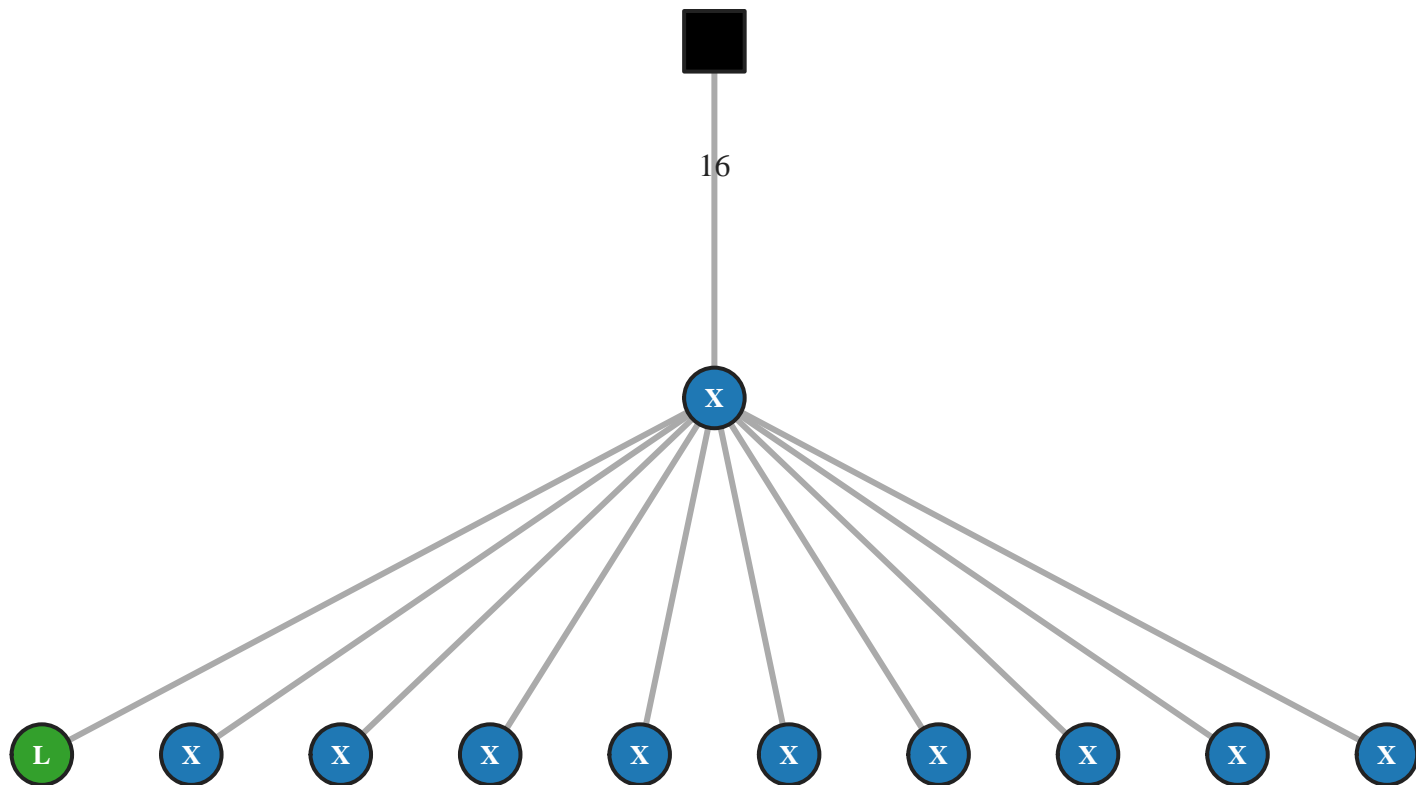
M3 IgG IGHV4-31/J5 75bp (12014)



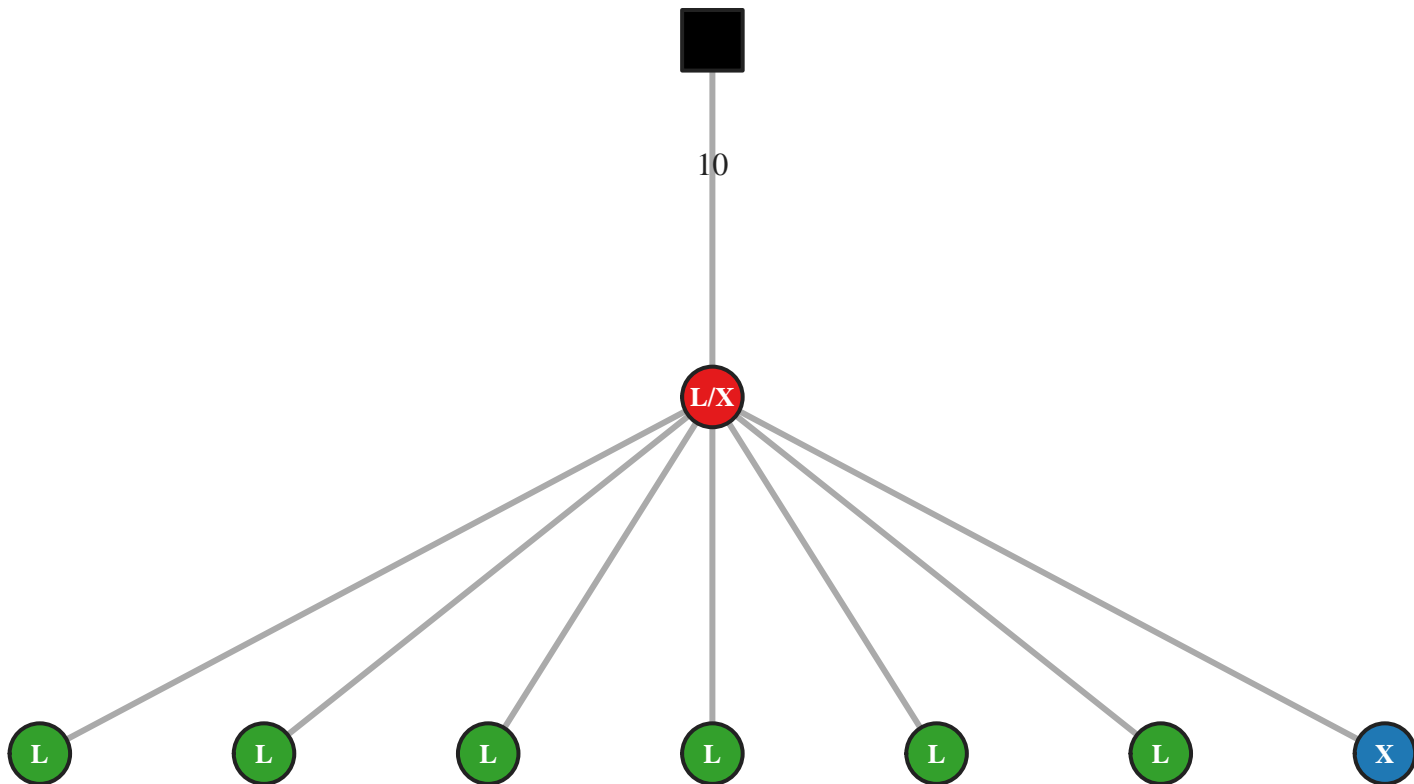
M3 IgG IGHV4-31/J6 69bp (12032)



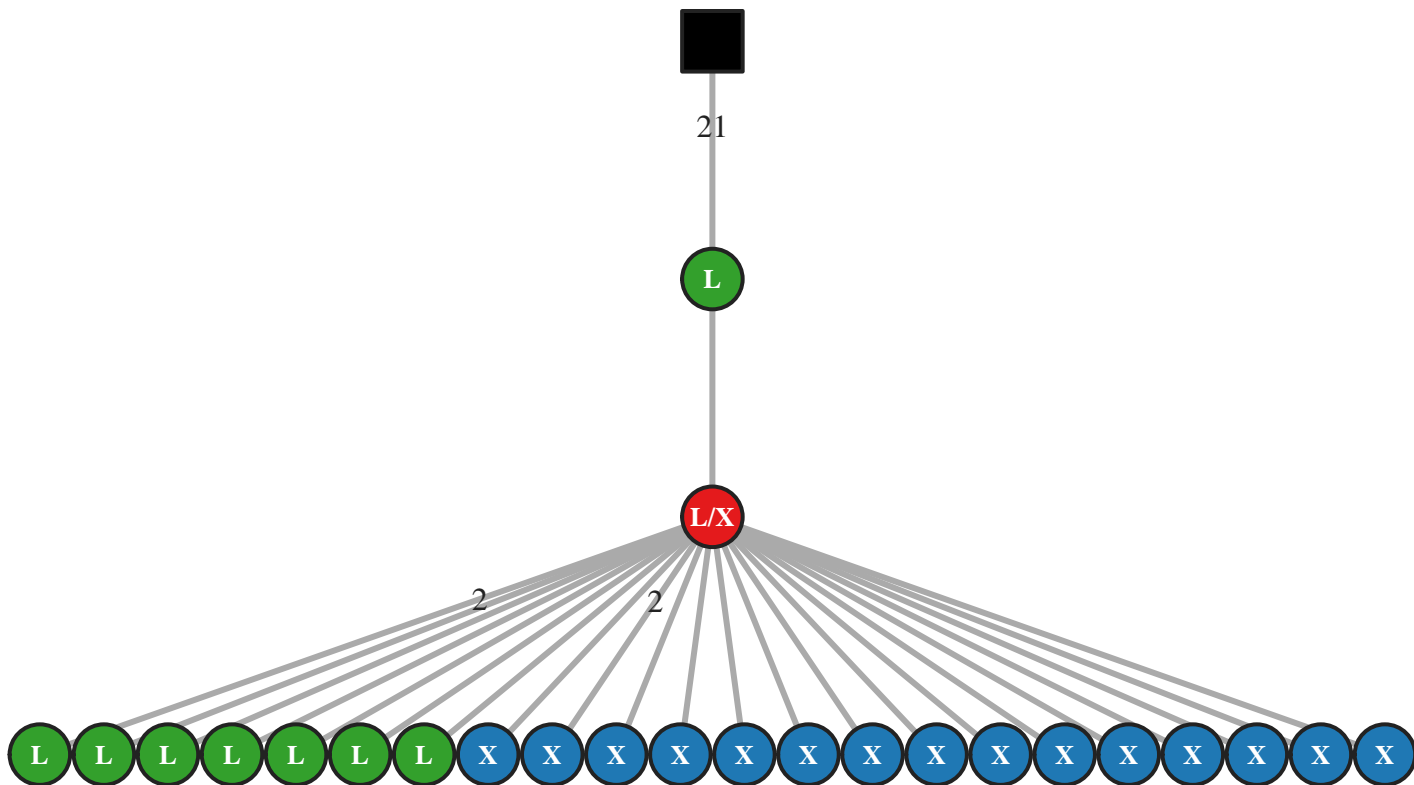
M3 IgG IGHV4-31/J6 75bp (7773)



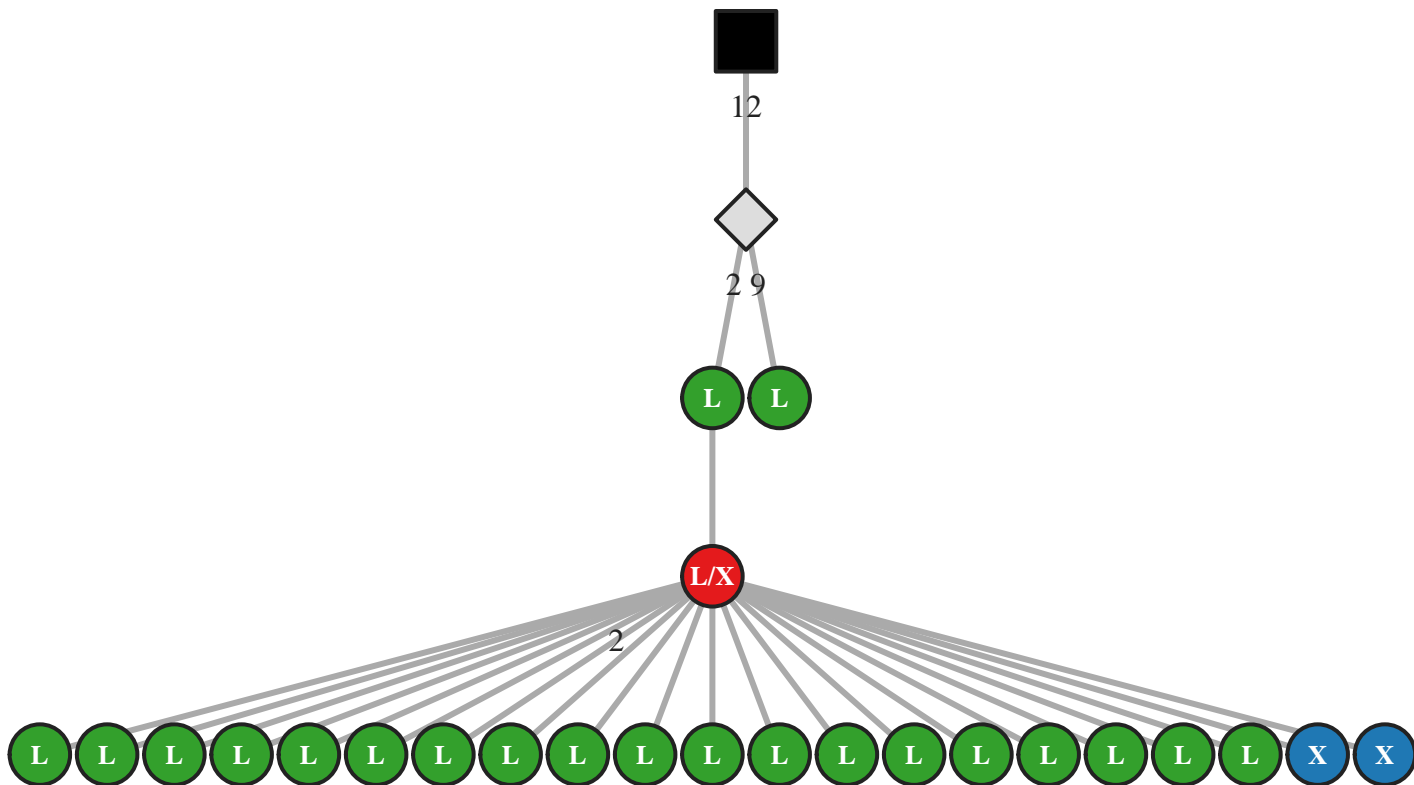
M3 IgG IGHV4-34/J1 33bp (12034)



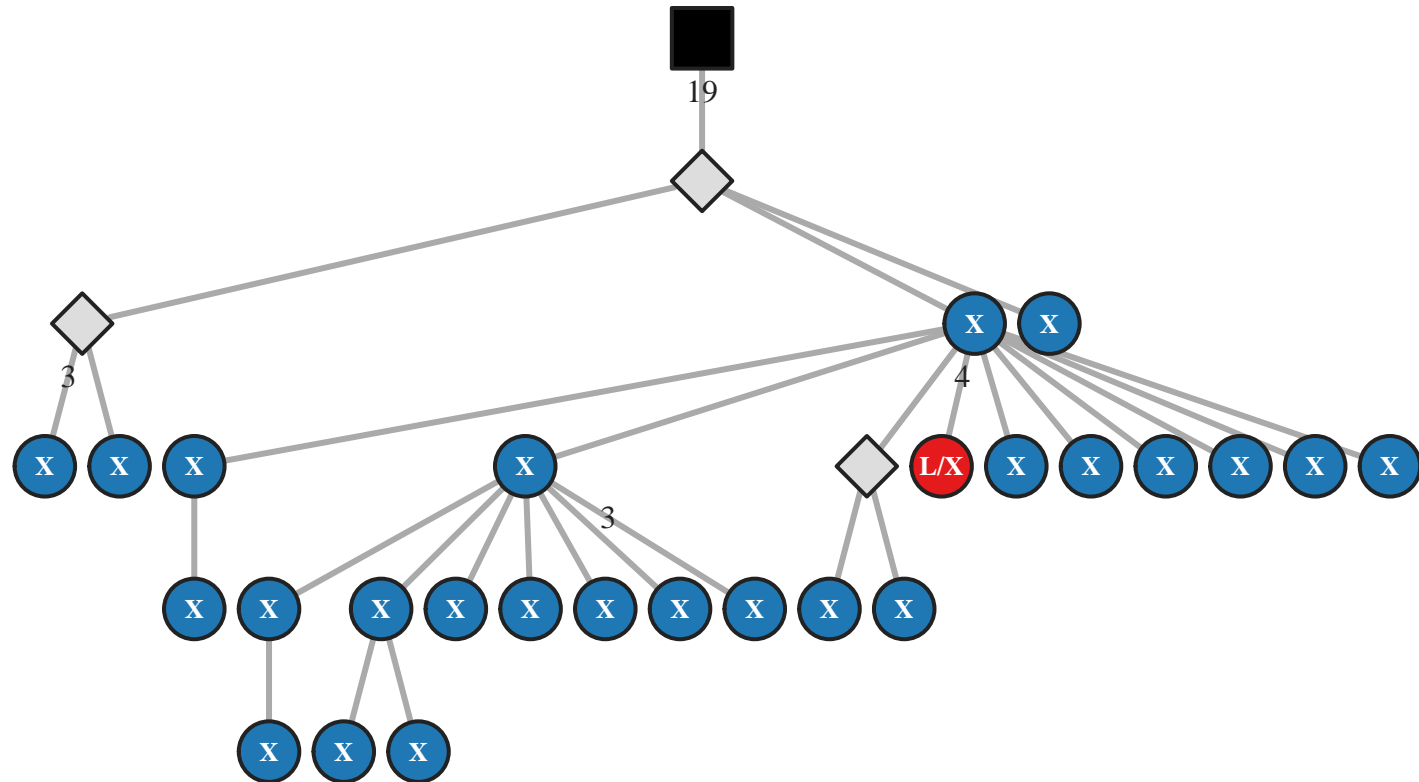
M3 IgG IGHV4-34/J4 48bp (7777)



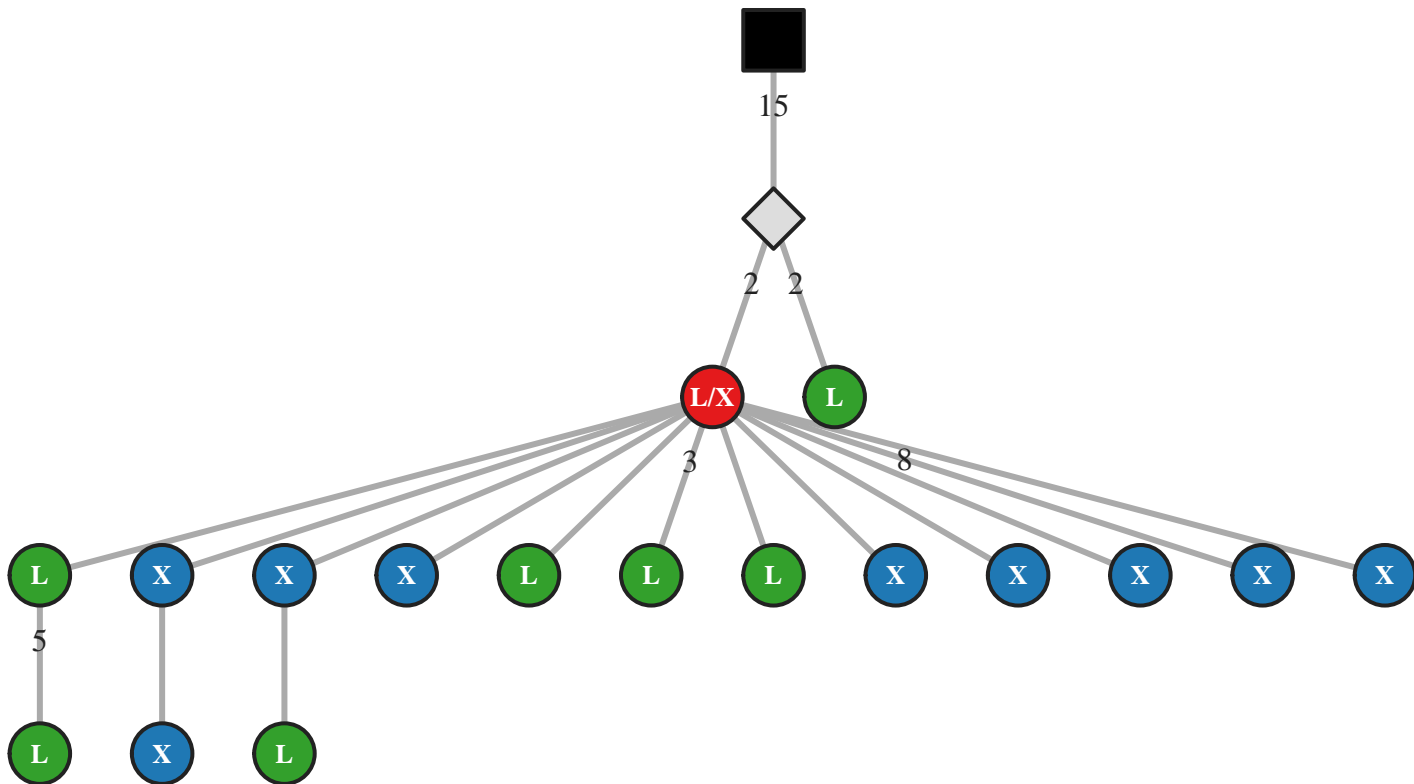
M3 IgG IGHV4-34/J5 39bp (12044)



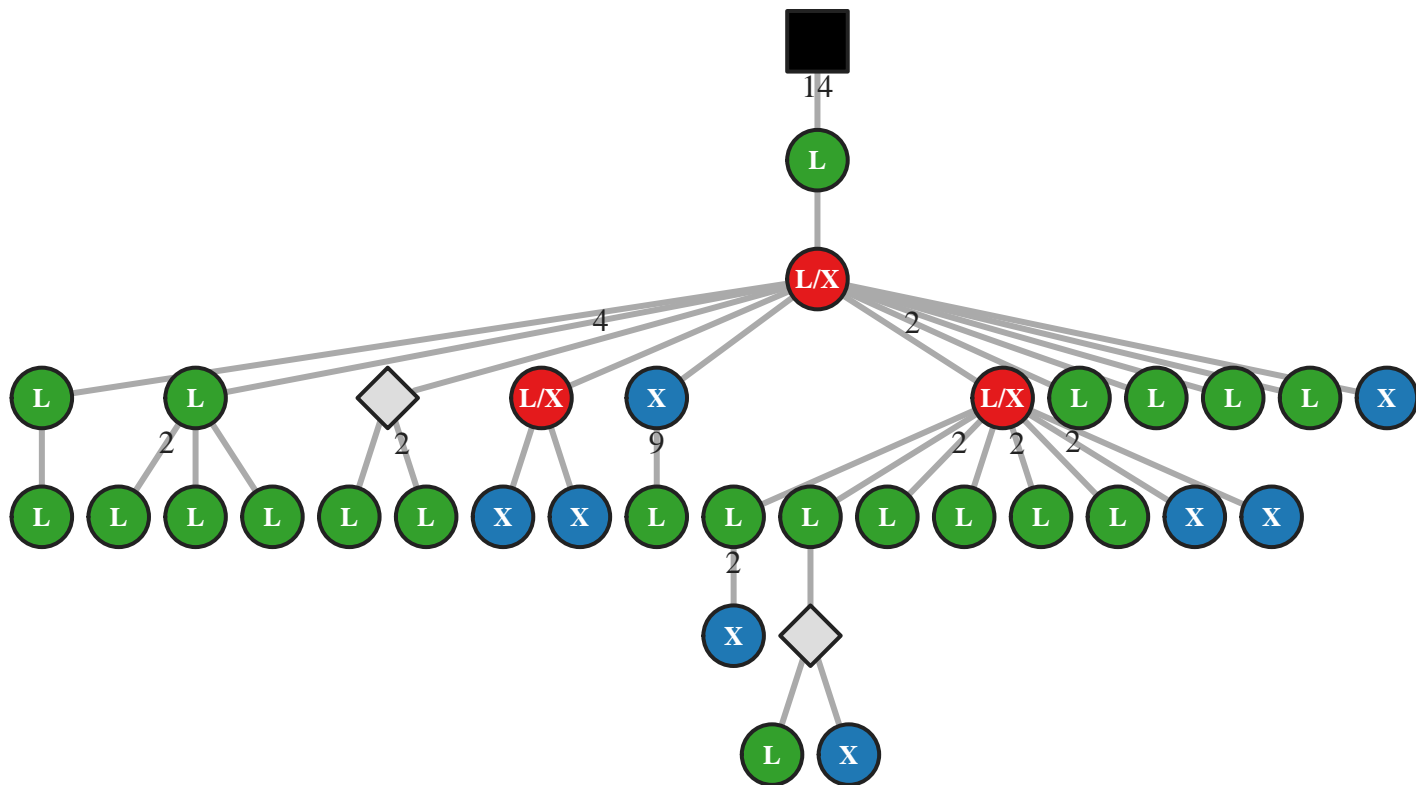
M3 IgG IGHV4-39/J1 39bp (12048)



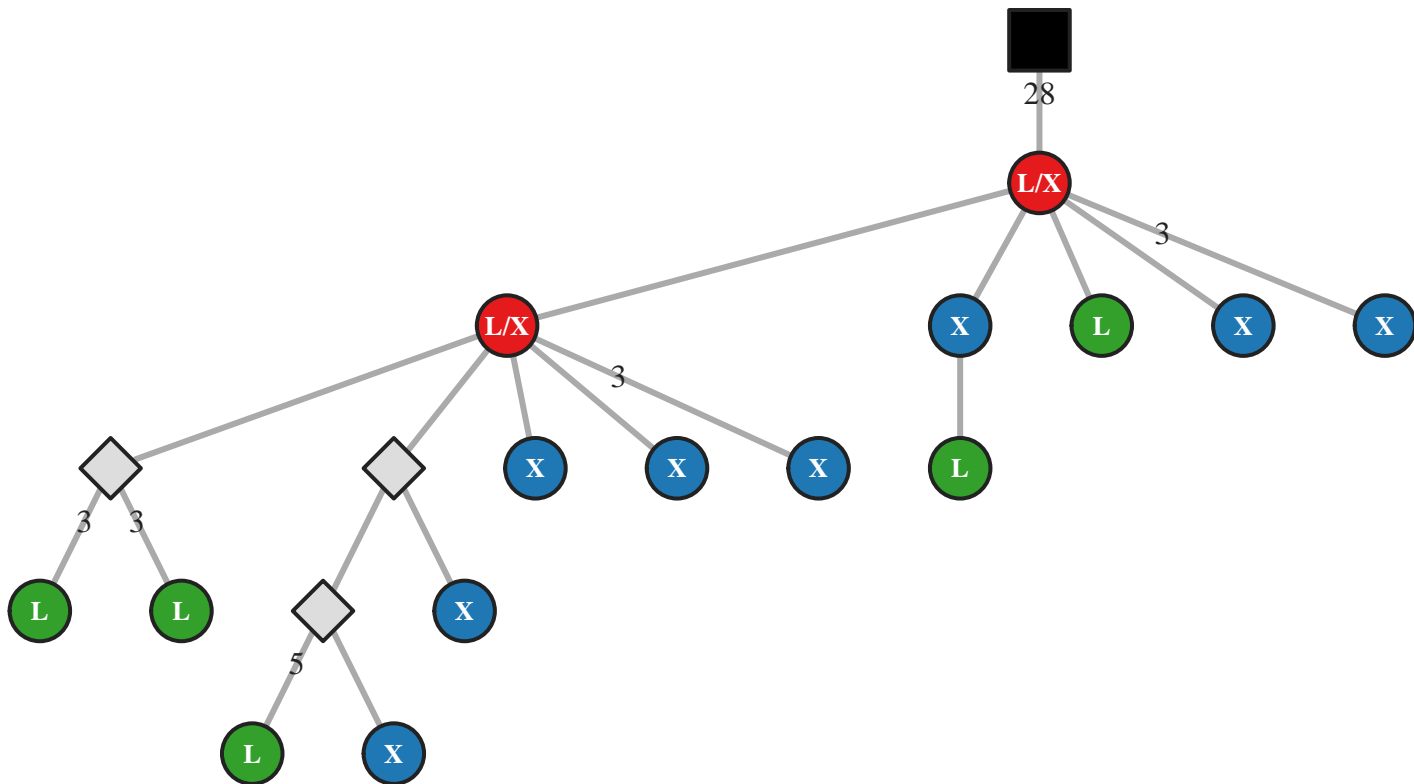
M3 IgG IGHV4-39/J3 39bp (12050)



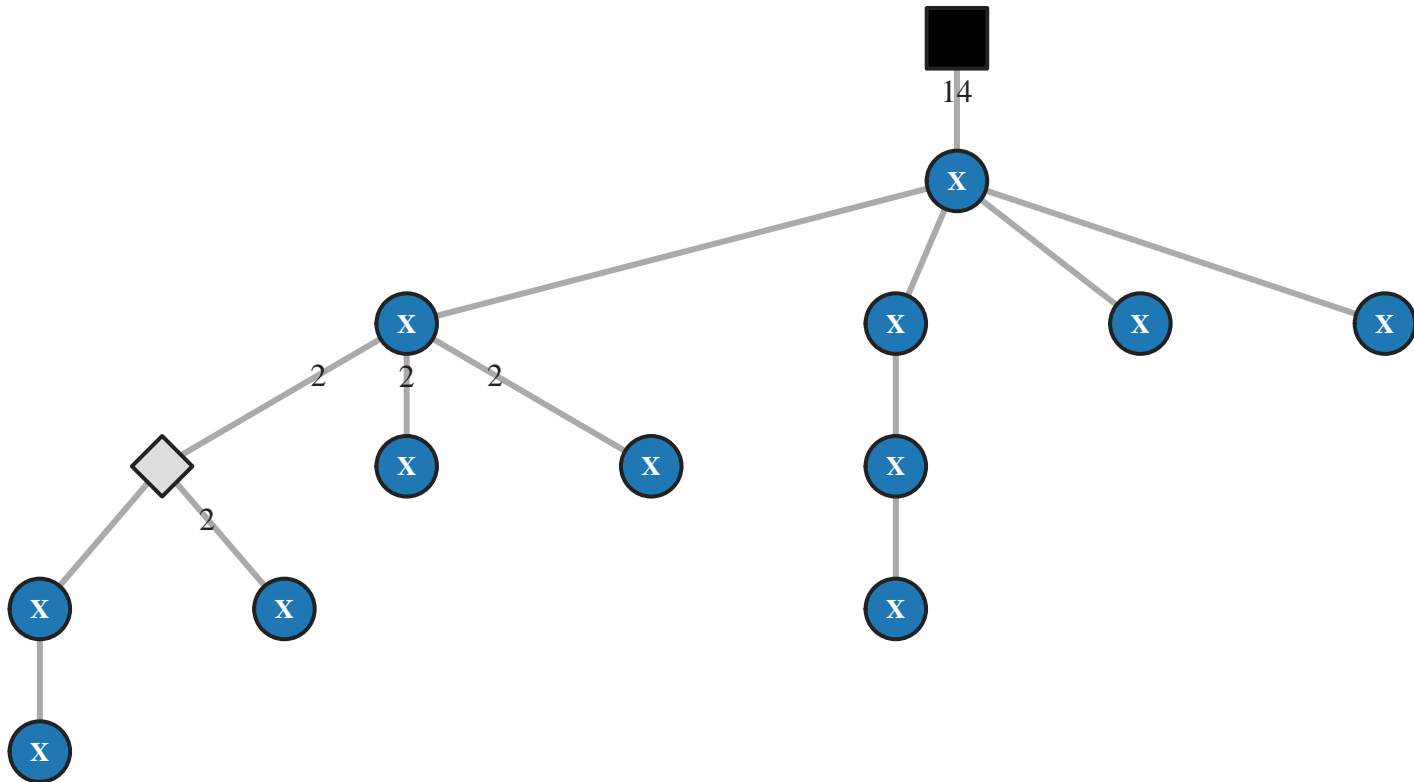
M3 IgG IGHV4-39/J3 54bp (12052)



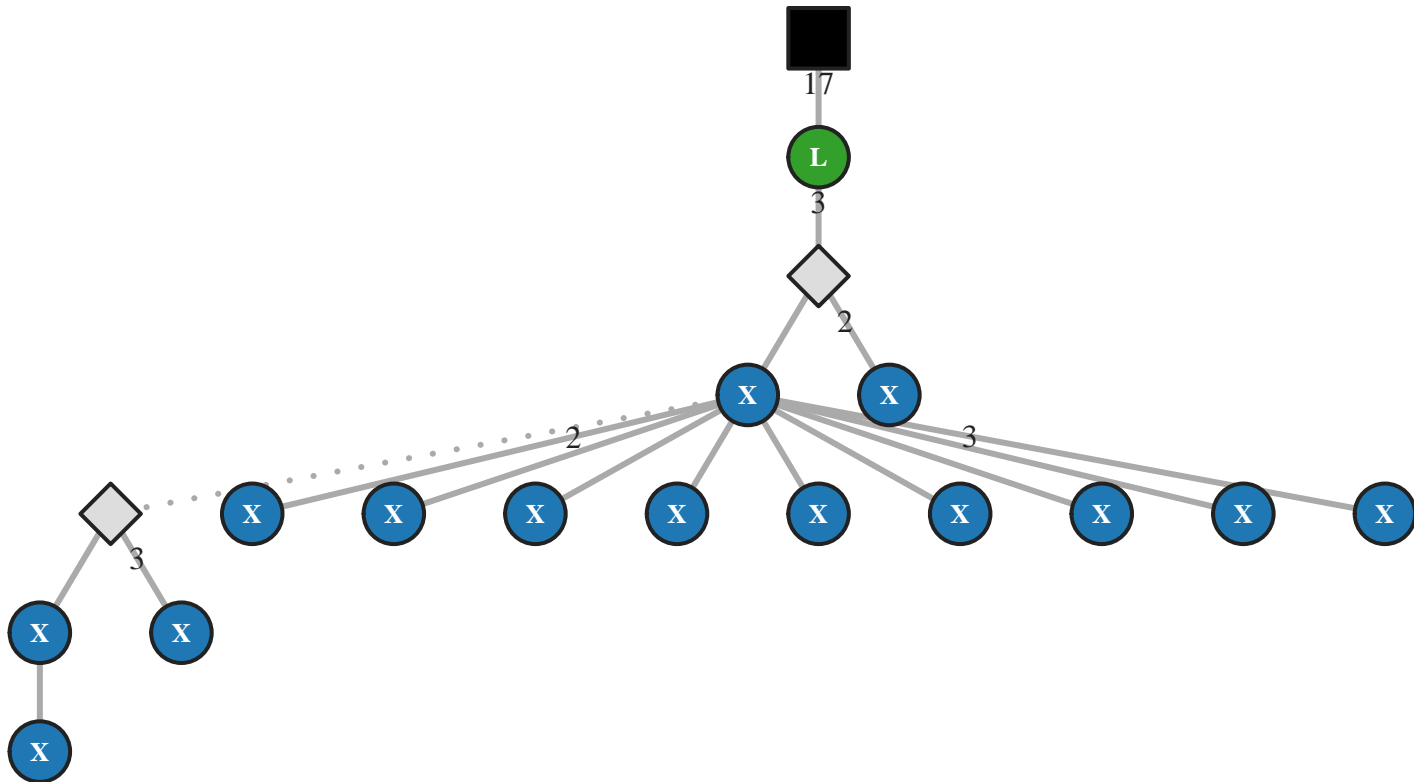
M3 IgG IGHV4-39/J3 57bp (15170)



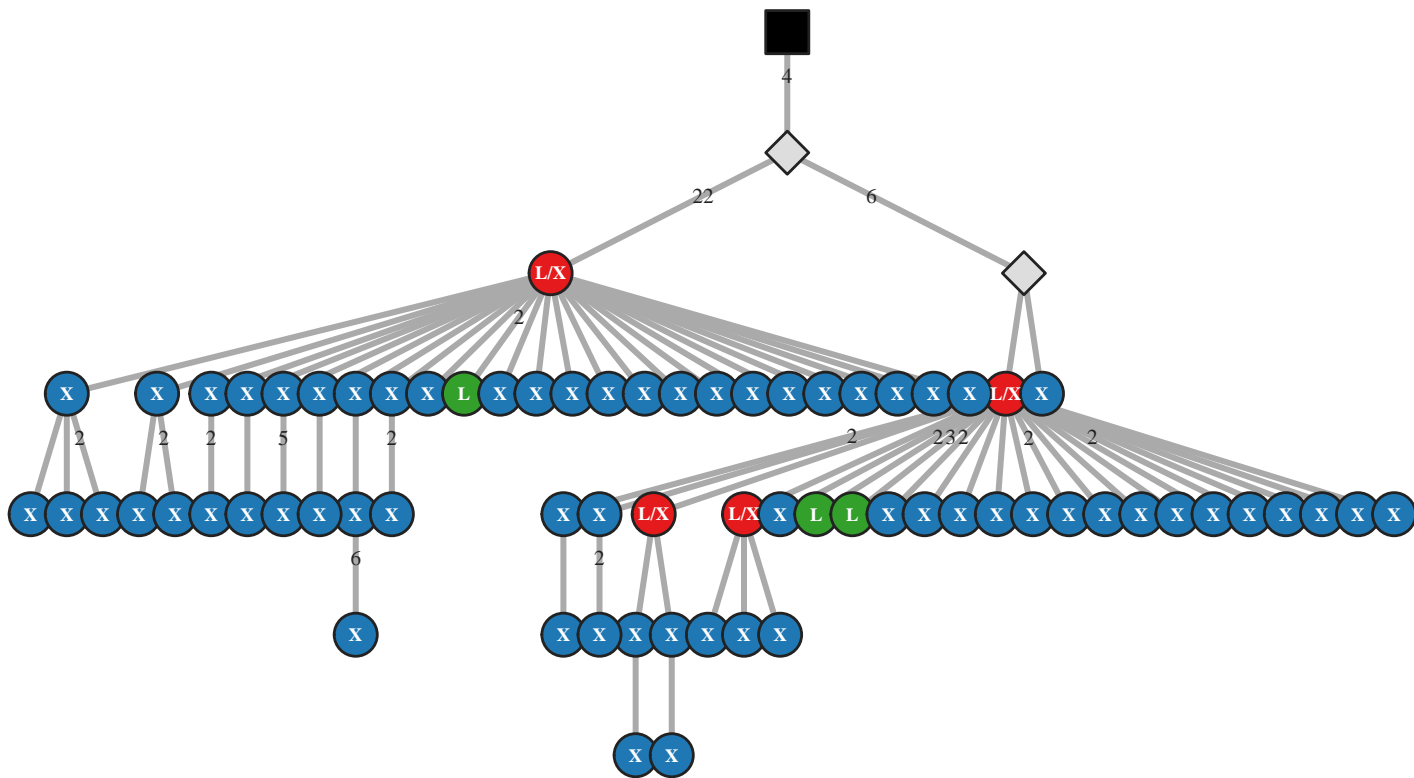
M3 IgG IGHV4-39/J3 69bp (7795)



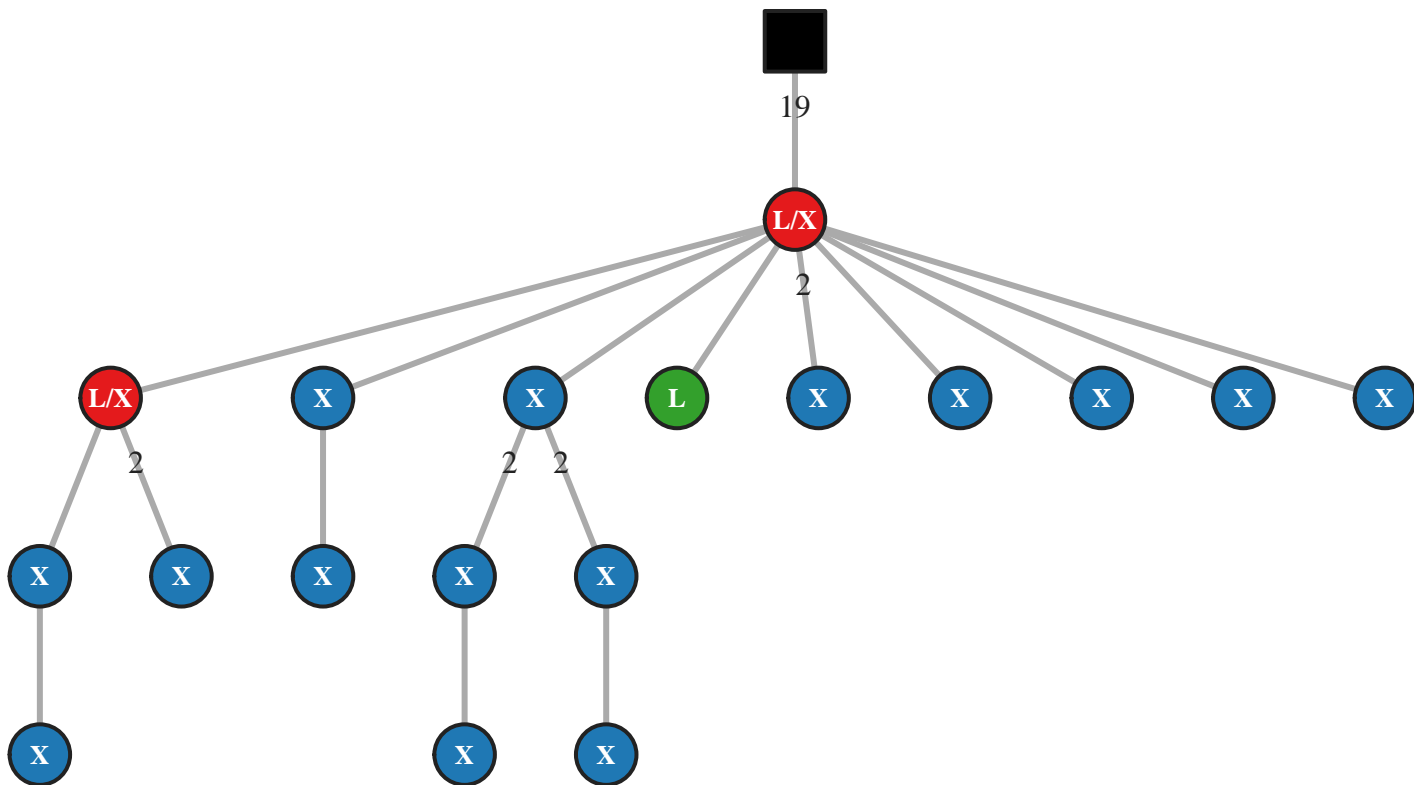
M3 IgG IGHV4-39/J3 69bp (7796)



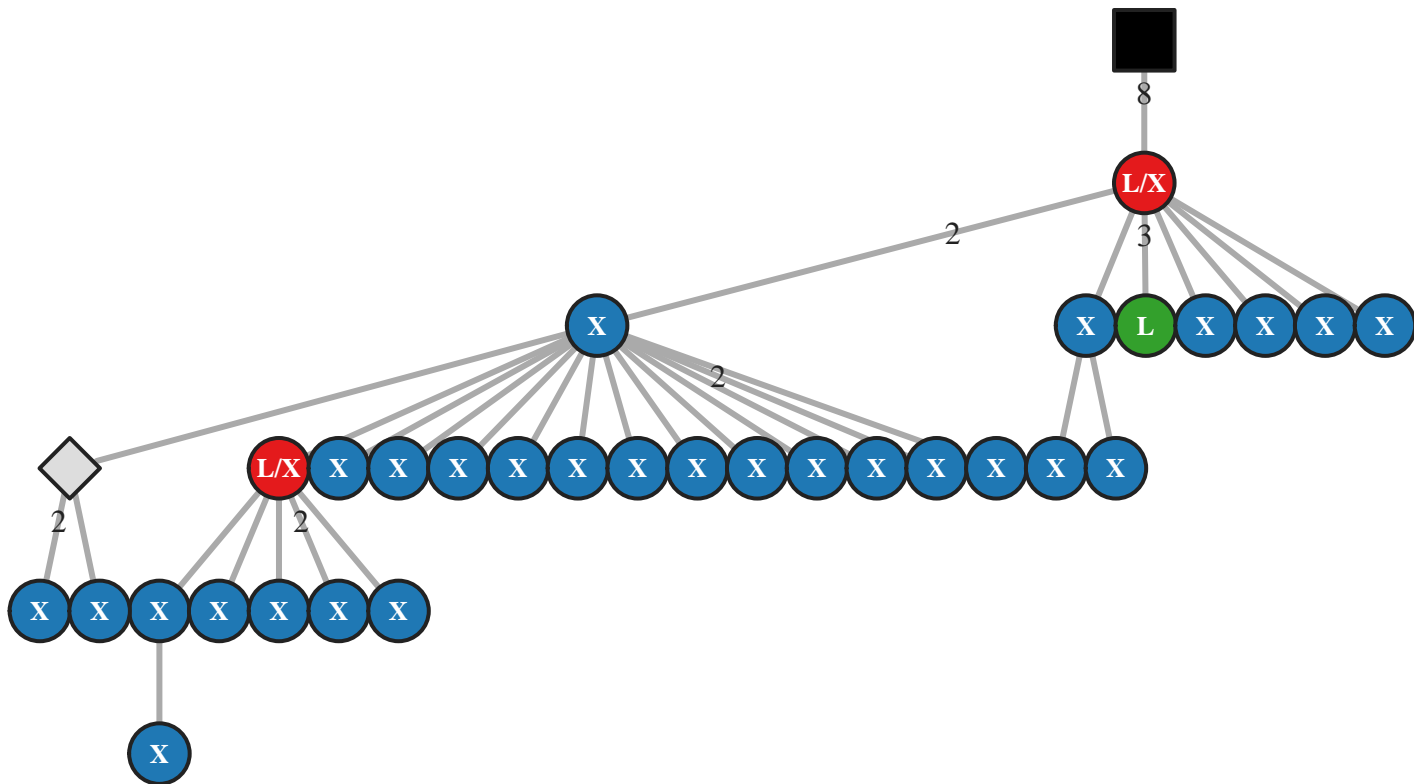
M3 IgG IGHV4-39/J4 33bp (12056)



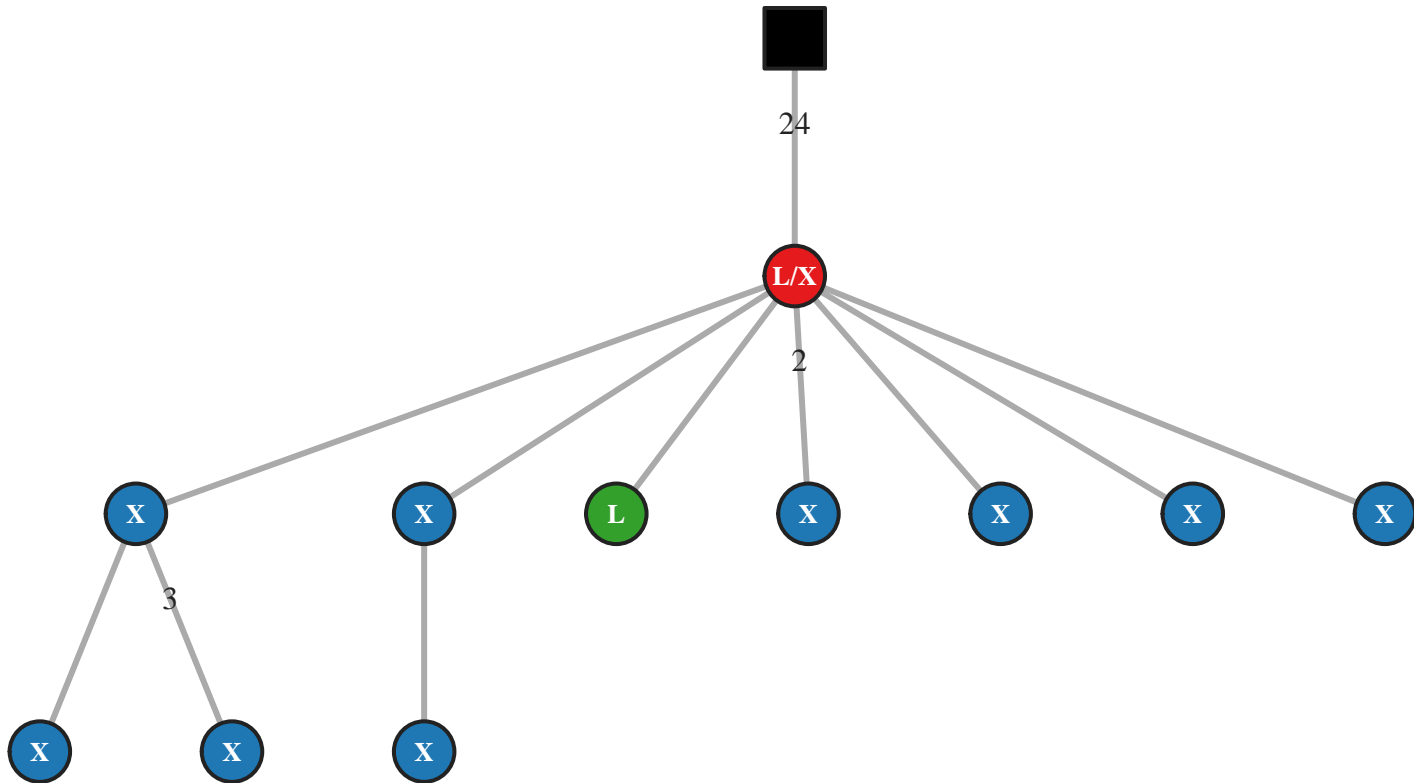
M3 IgG IGHV4-39/J4 33bp (12057)



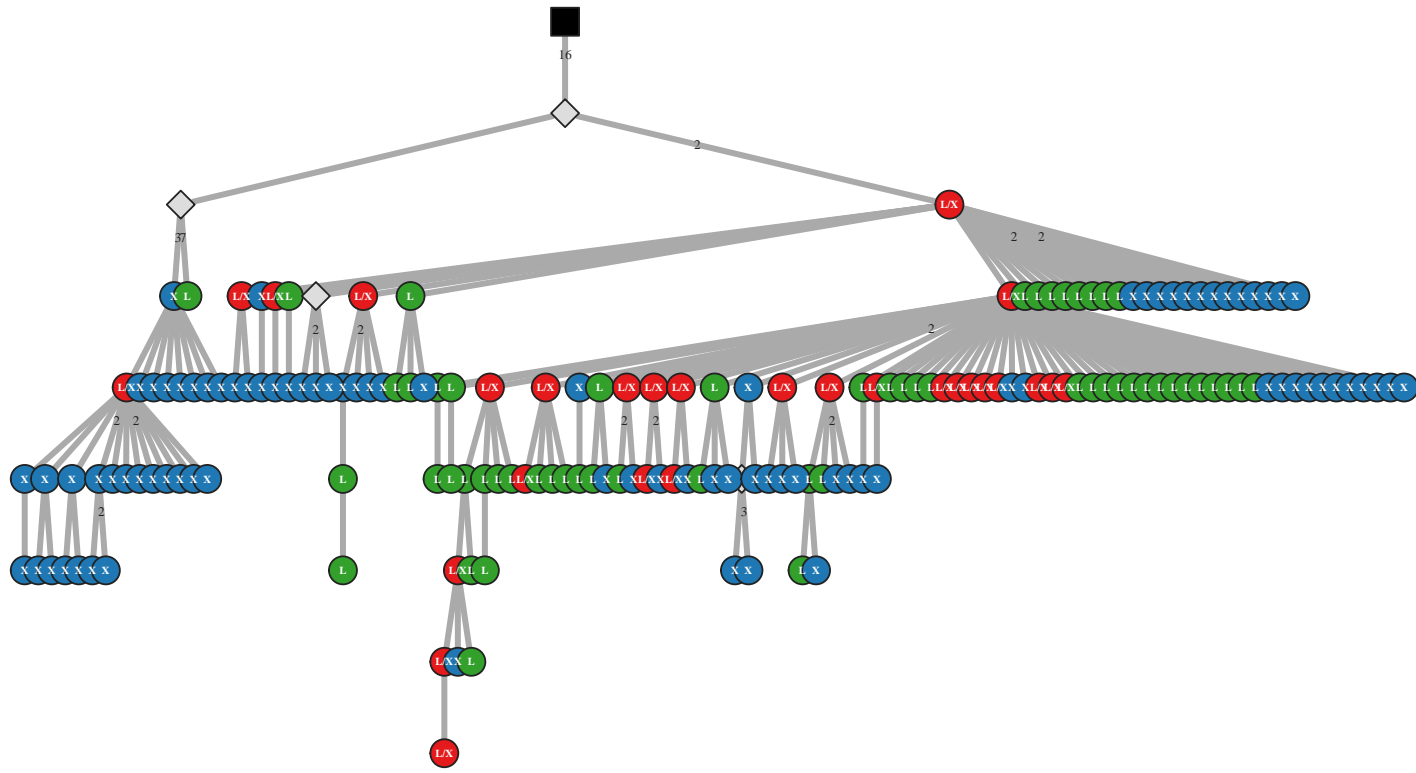
M3 IgG IGHV4-39/J4 33bp (12058)



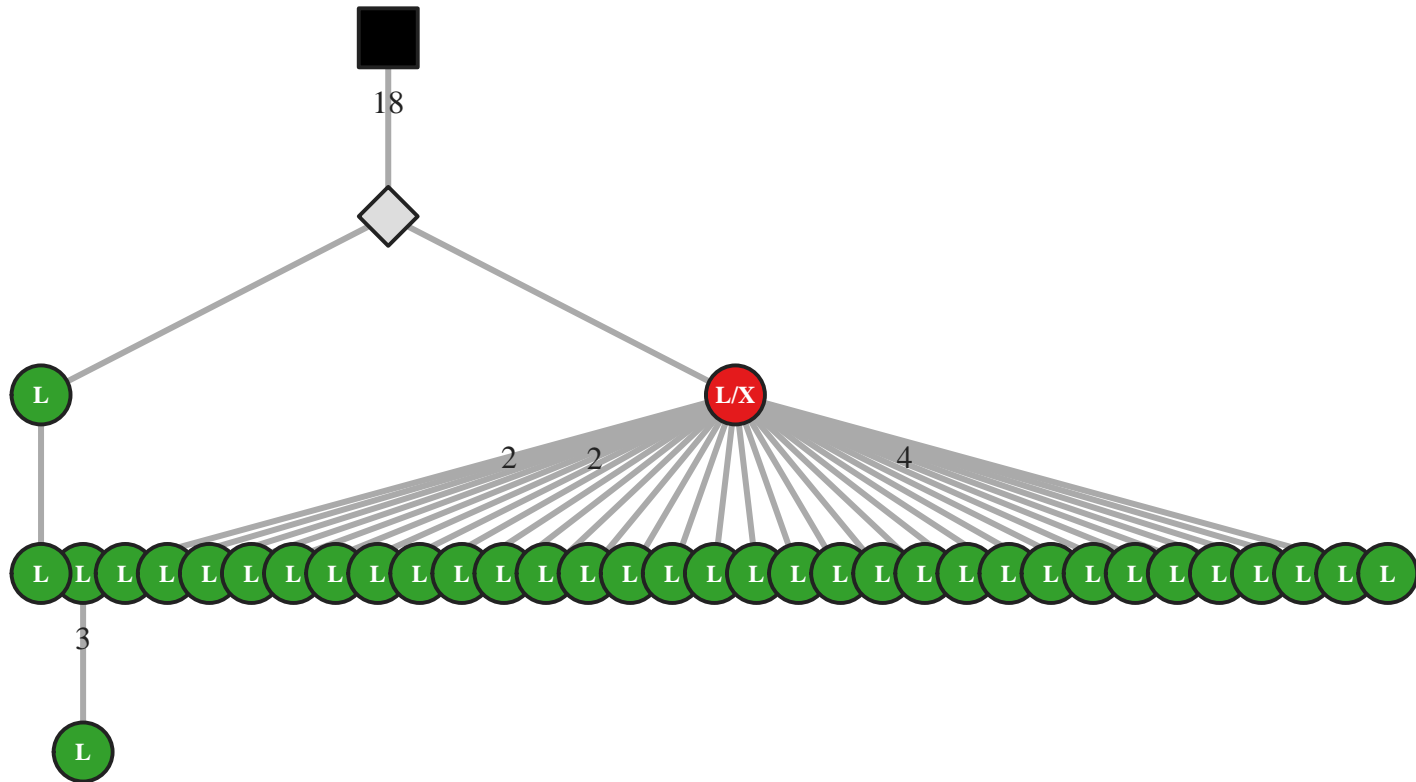
M3 IgG IGHV4-39/J4 33bp (12059)



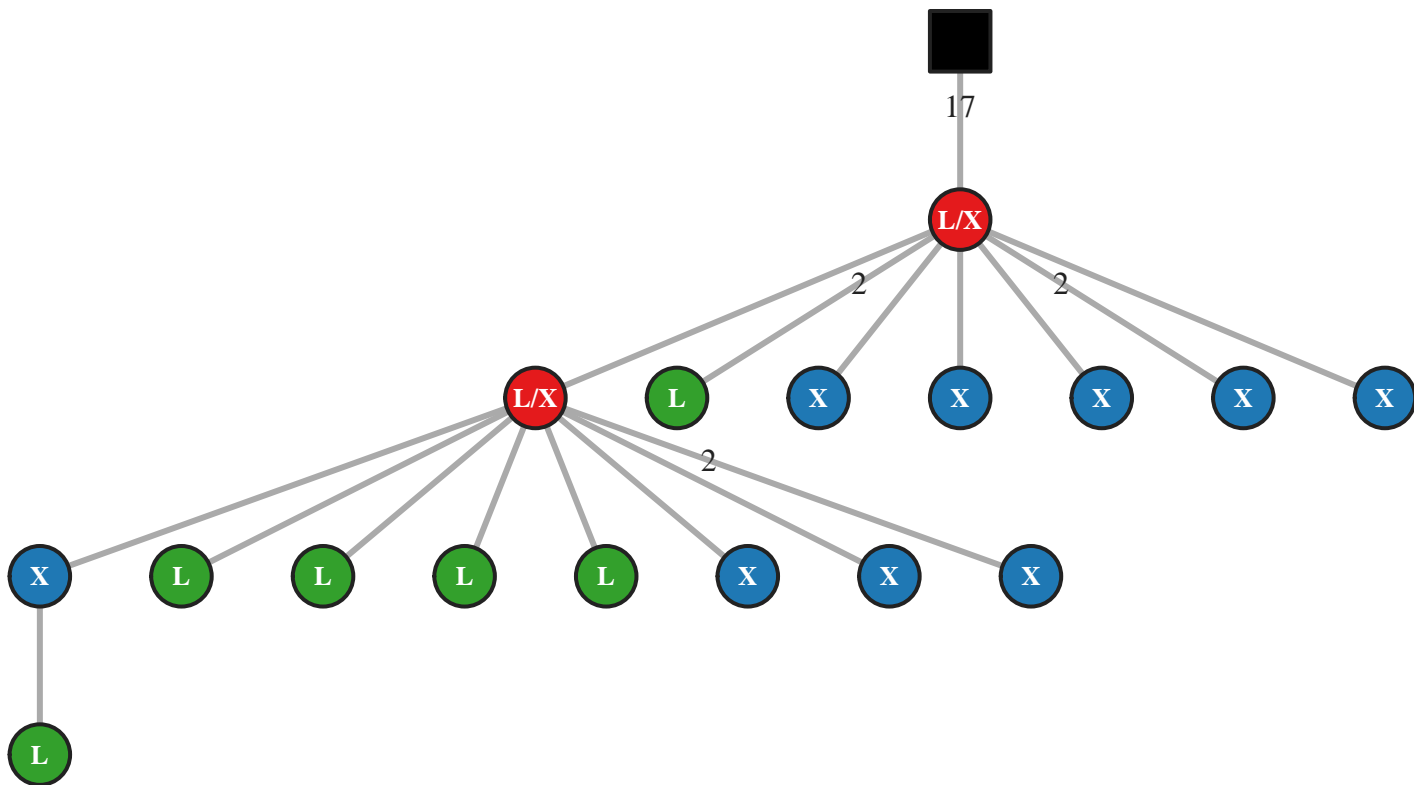
M3 IgG IGHV4-39/J4 39bp (12062)



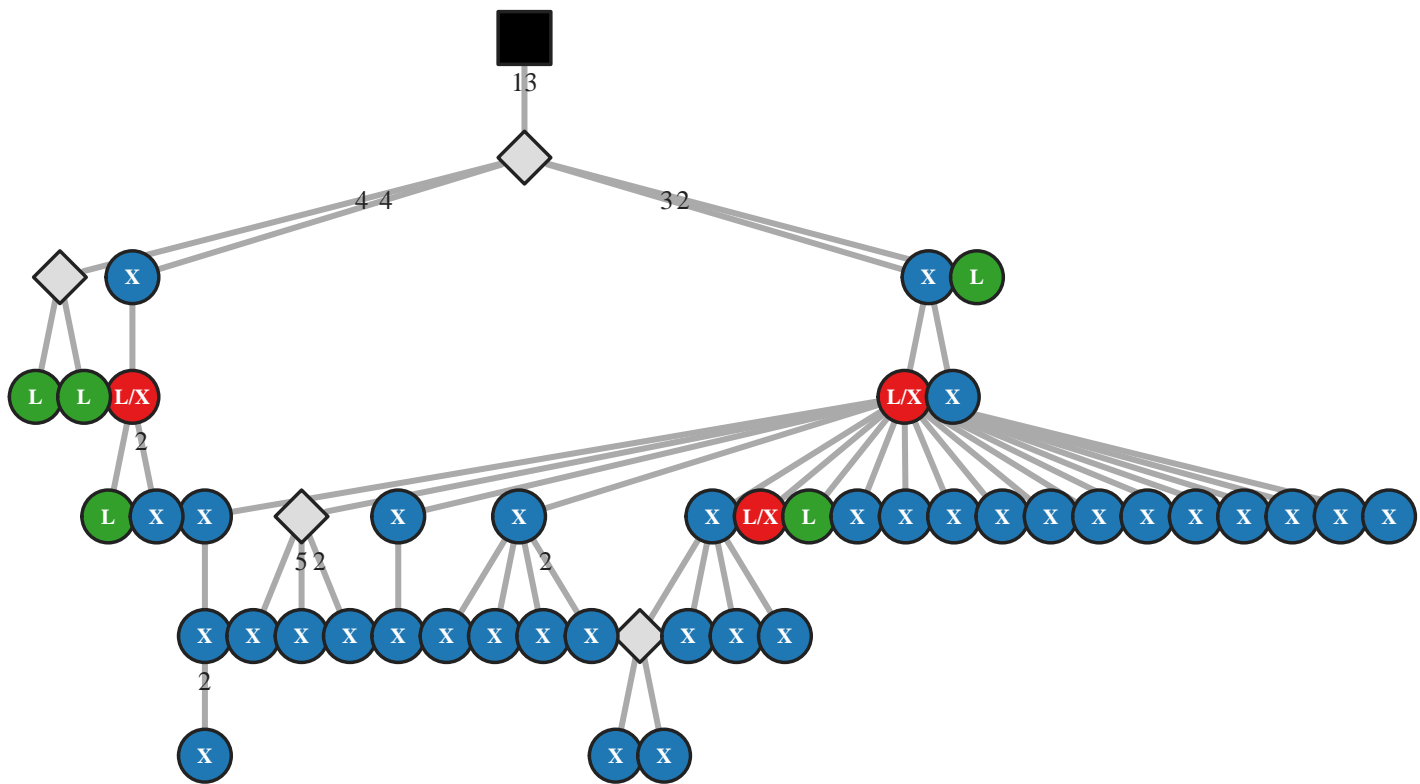
M3 IgA IGHV4-39/J4 48bp (6262)



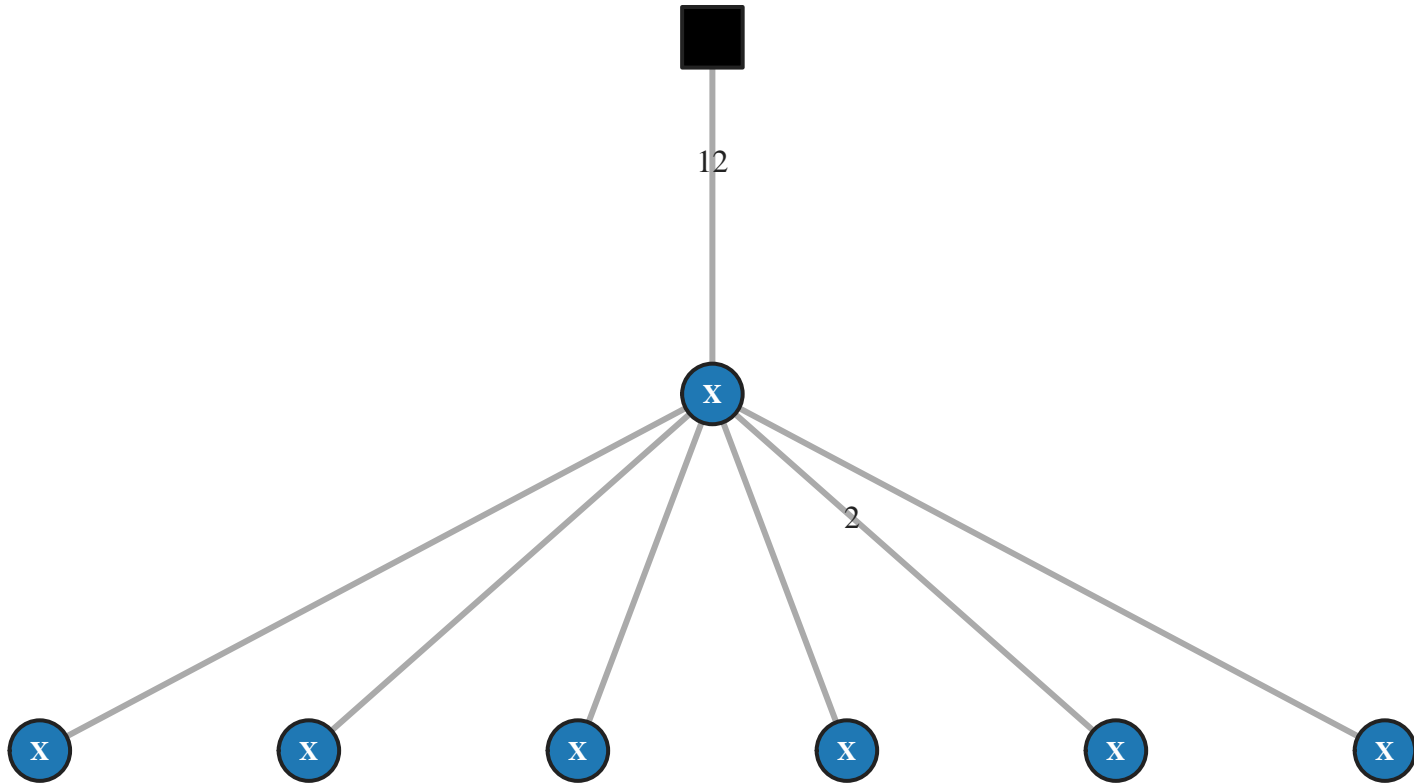
M3 IgG IGHV4-39/J4 48bp (12075)



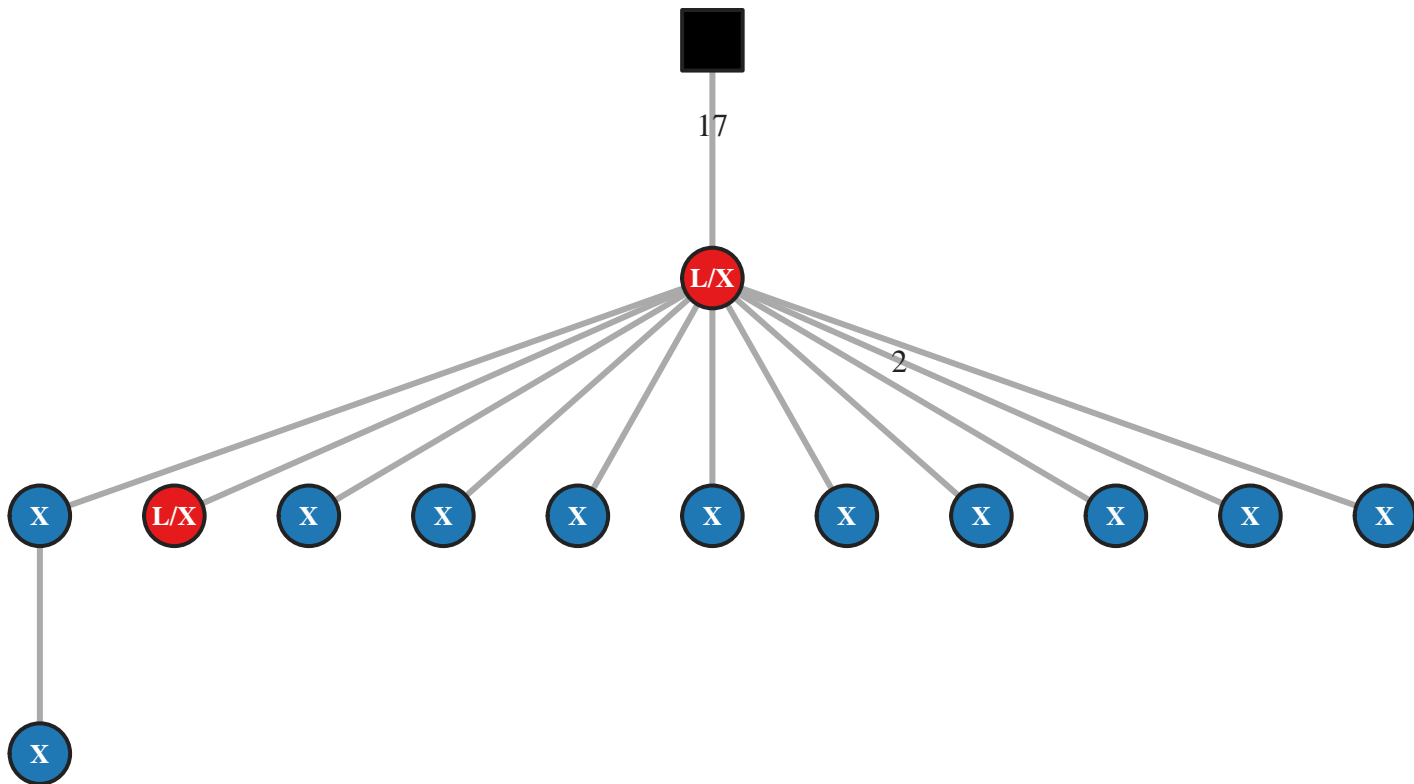
M3 IgG IGHV4-39/J4 48bp (12076)



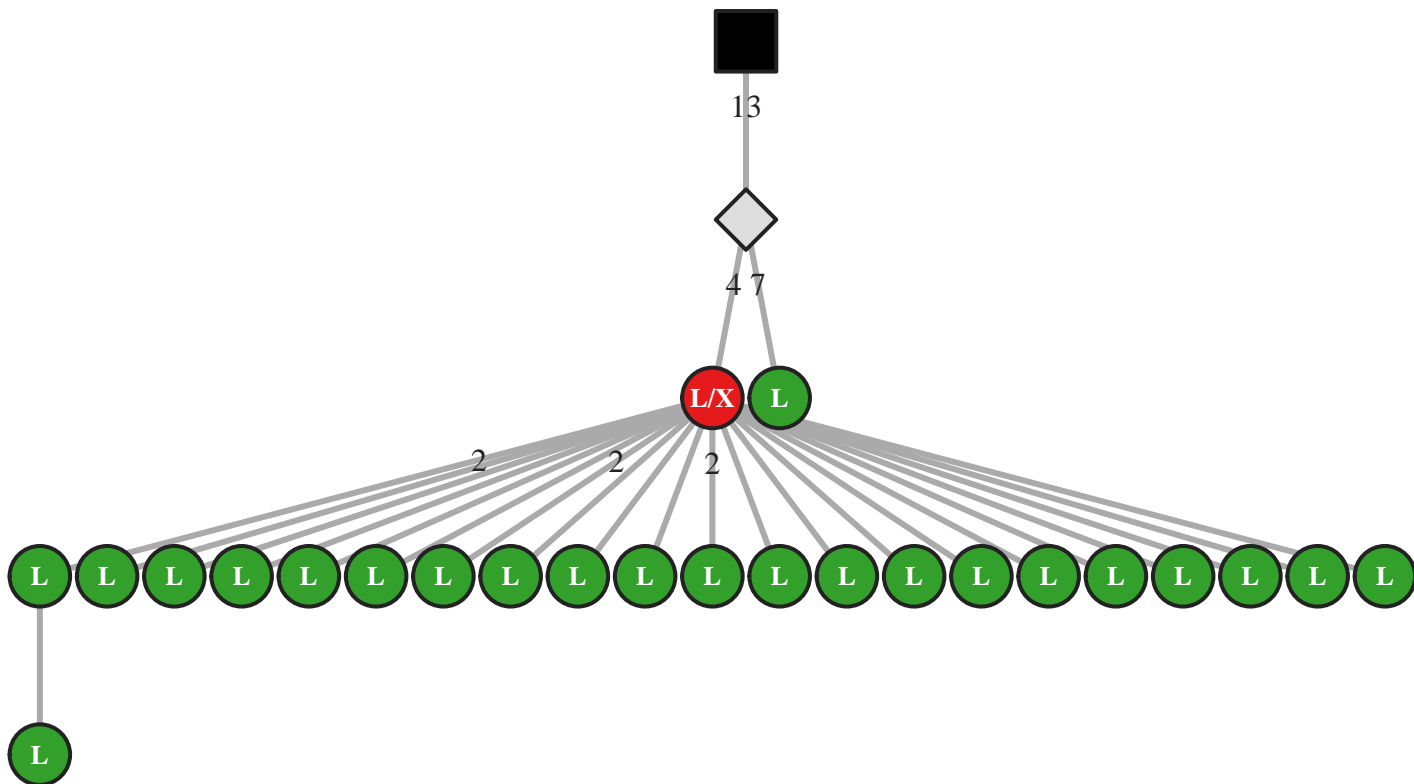
M3 IgG IGHV4-39/J4 48bp (12078)



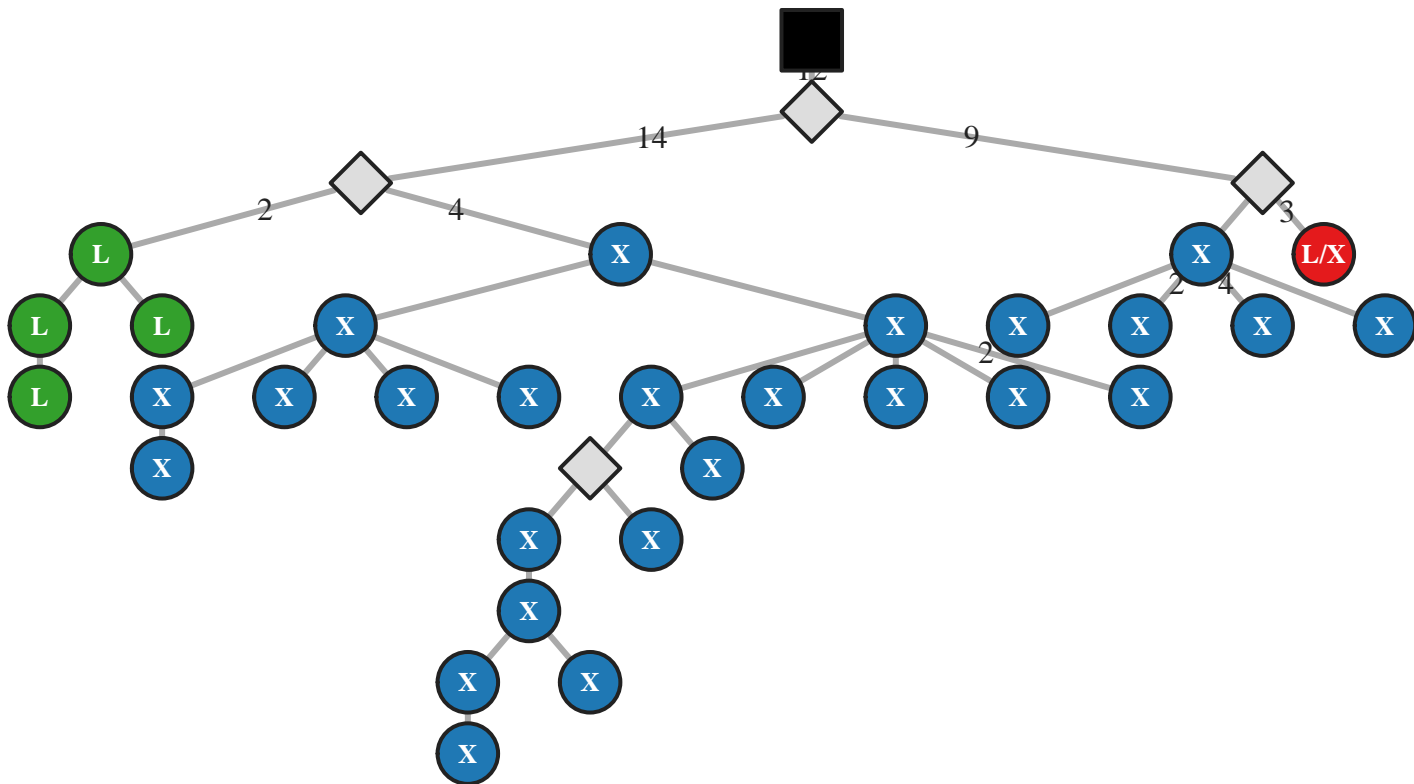
M3 IgG IGHV4-39/J4 48bp (12080)



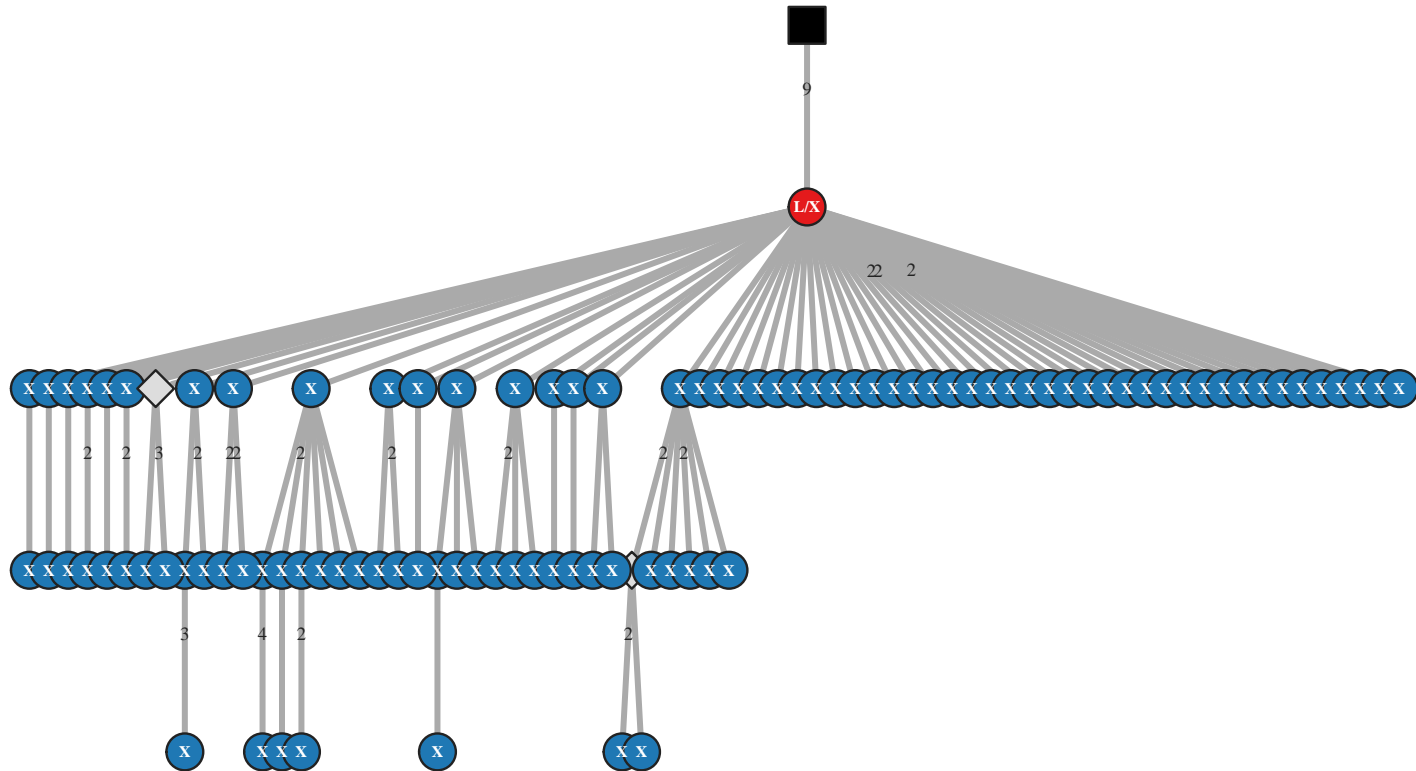
M3 IgG IGHV4-39/J4 48bp (12082)



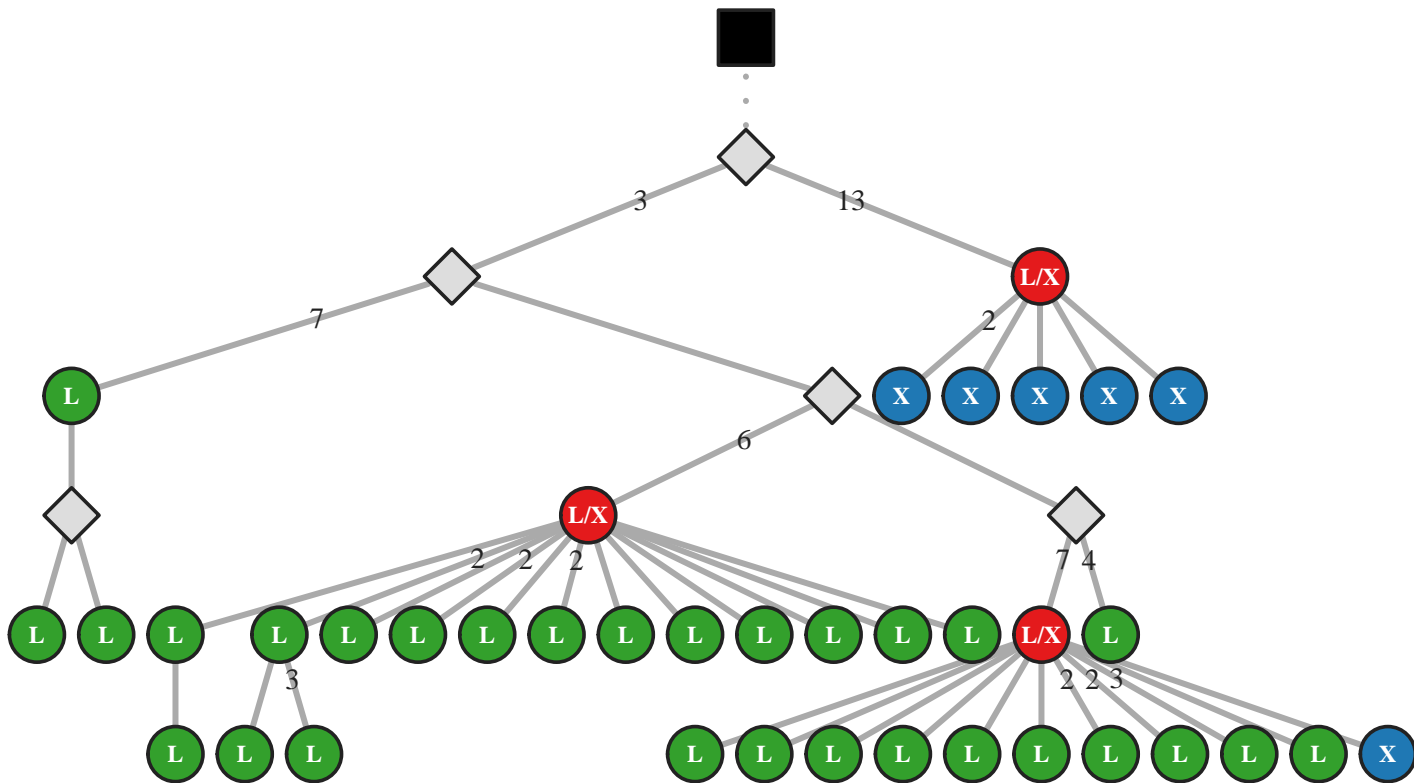
M3 IgG IGHV4-39/J4 51bp (12086)



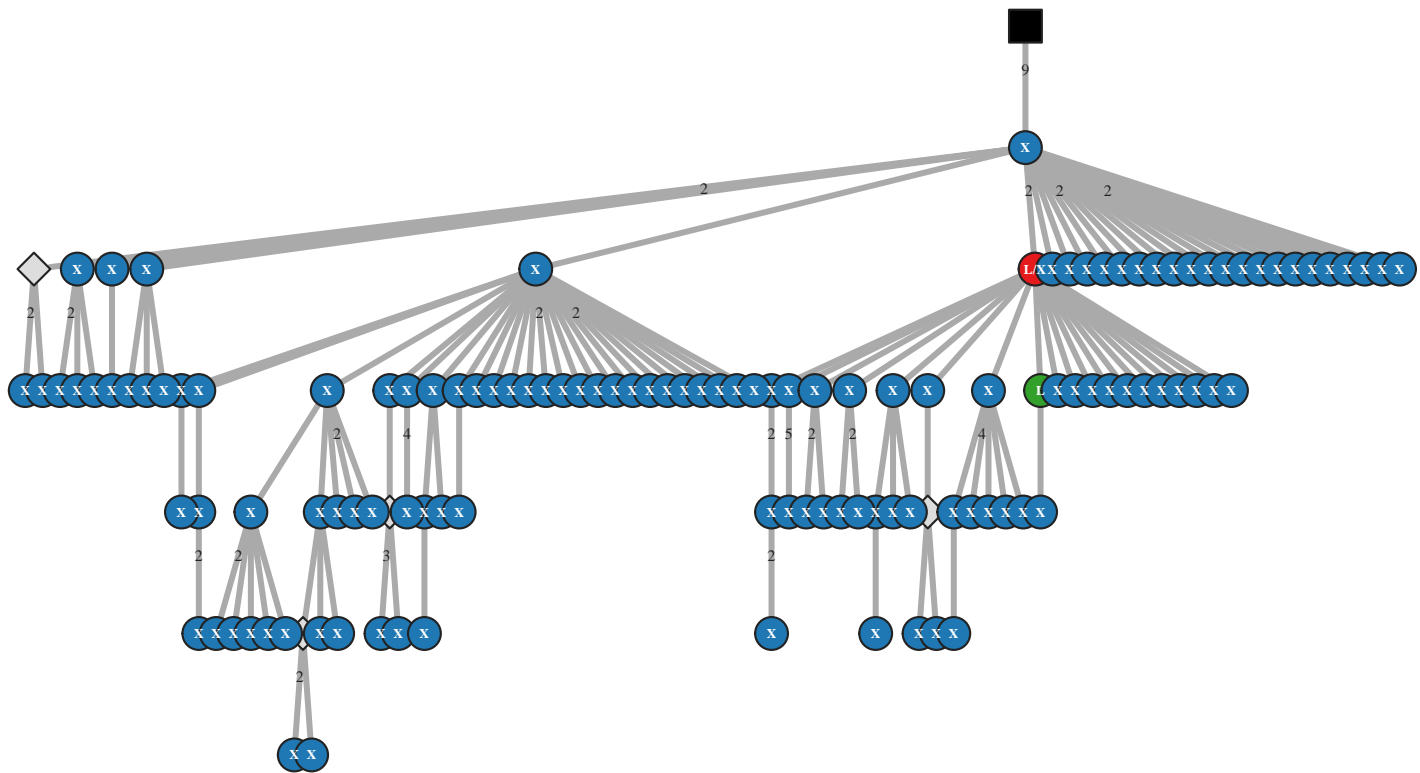
M3 IgG IGHV4-39/J4 51bp (12087)



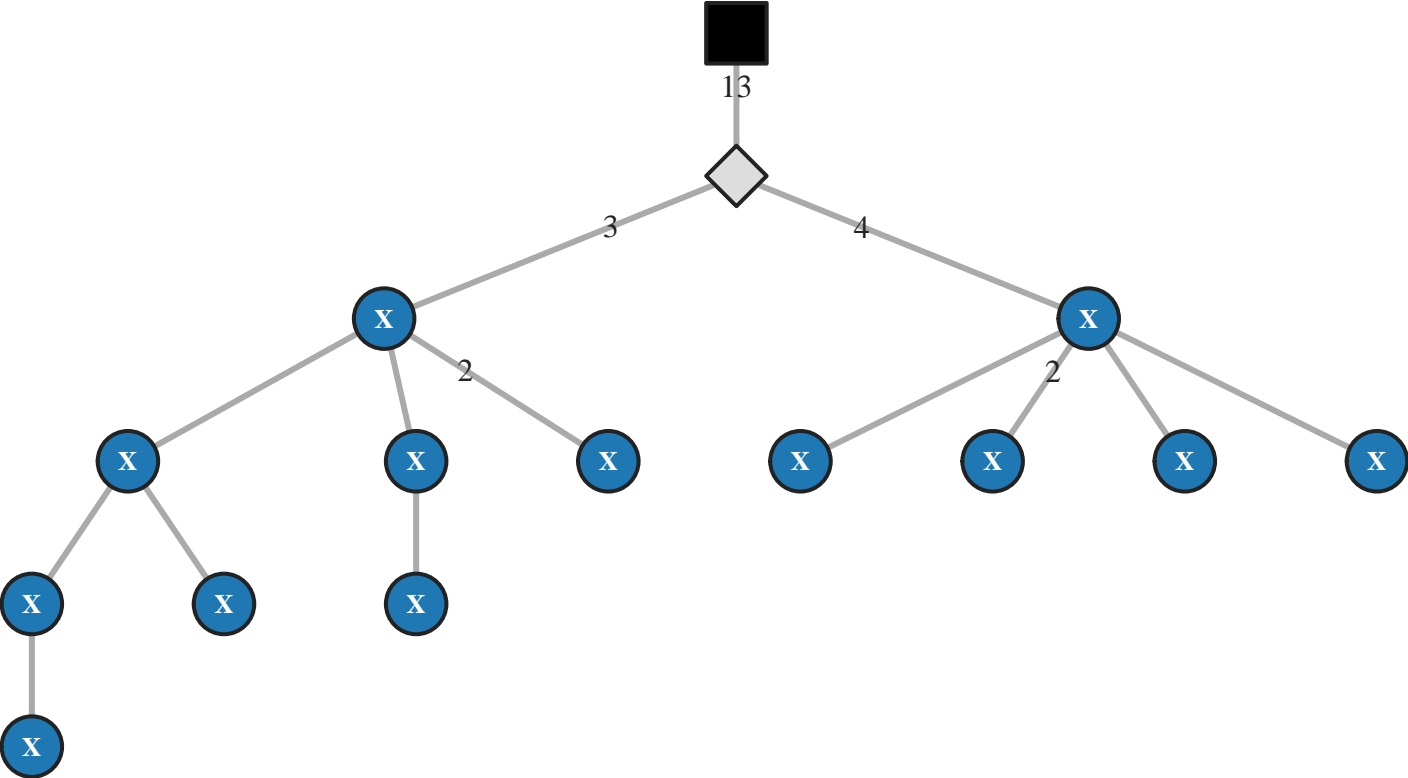
M3 IgG IGHV4-39/J4 51bp (12089)



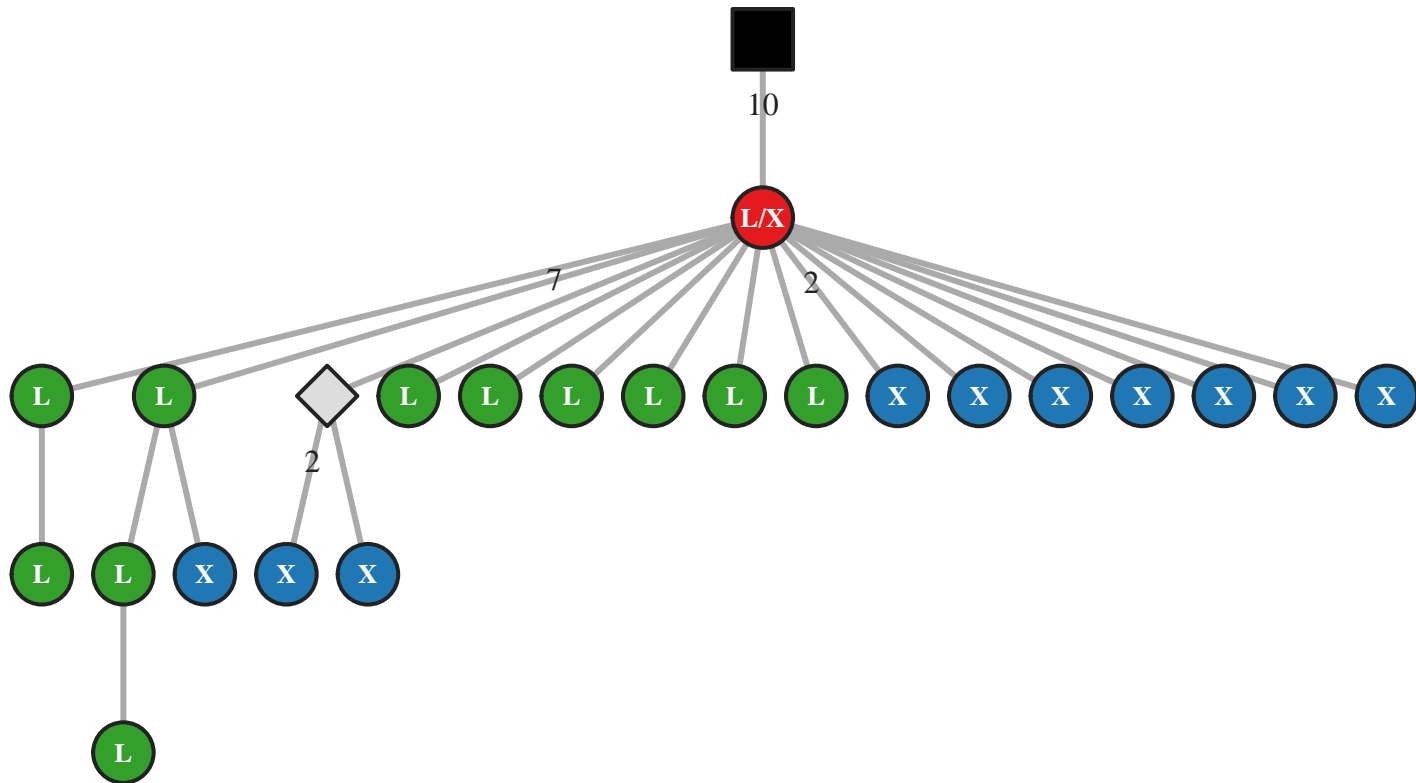
M3 IgG IGHV4-39/J4 51bp (12091)



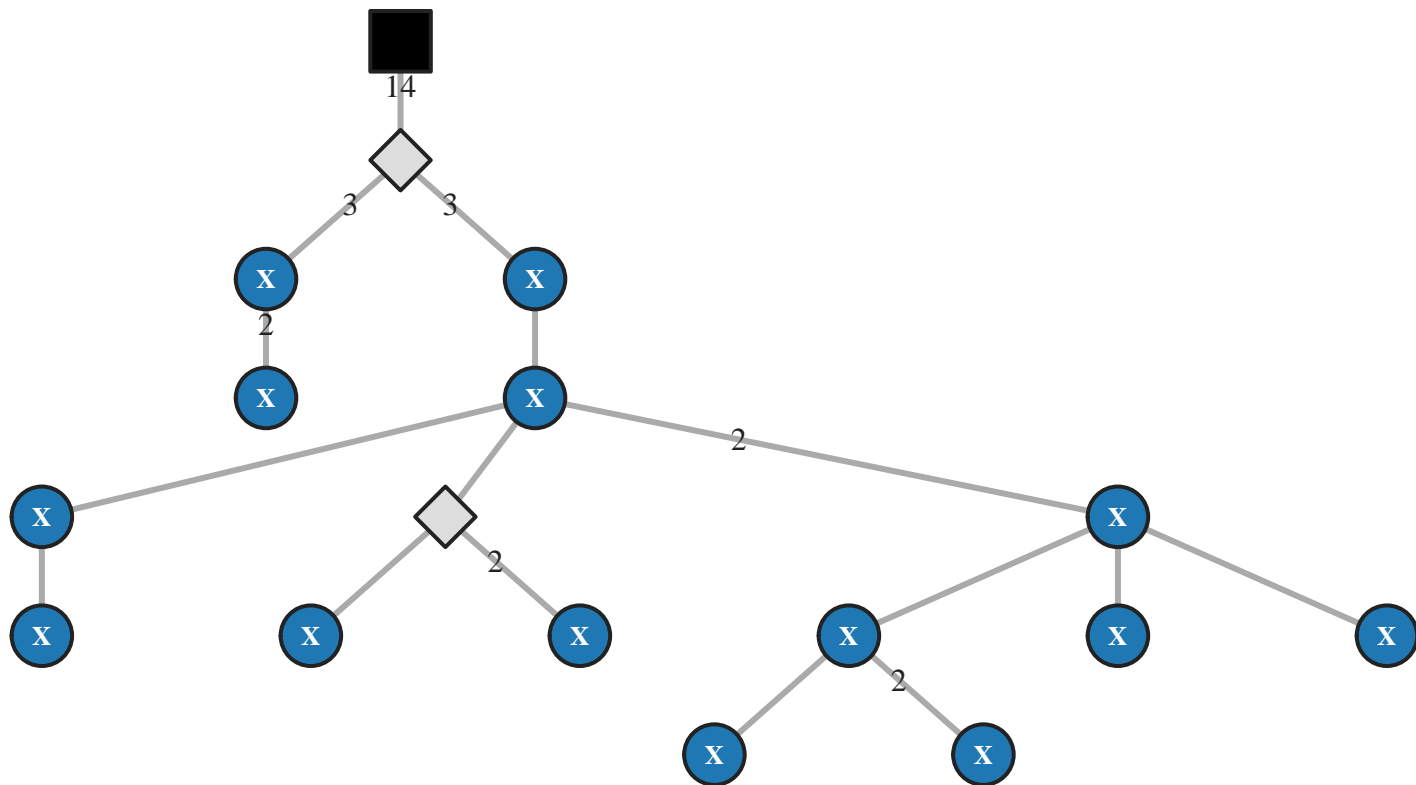
M3 IgG IGHV4-39/J4 57bp (3999)



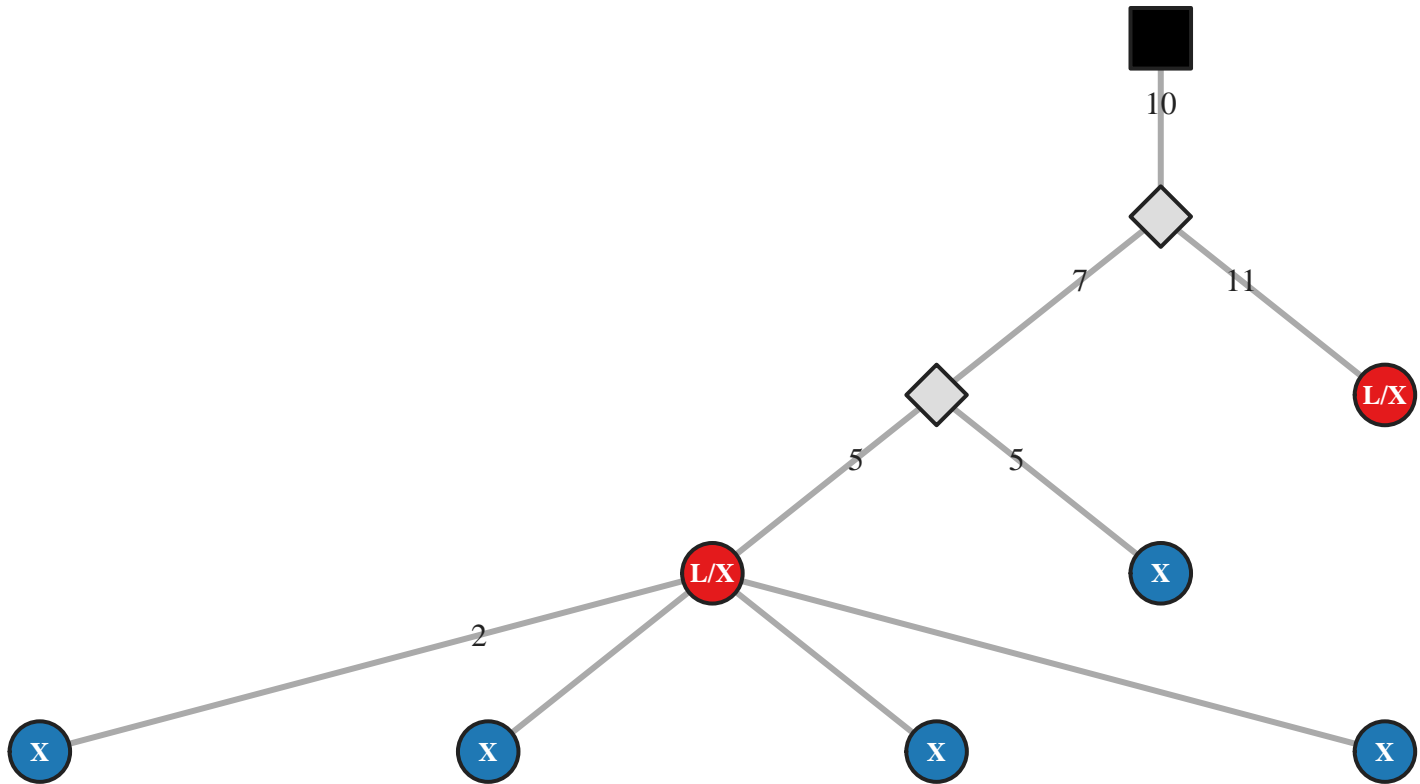
M3 IgG IGHV4-39/J4 57bp (4004)



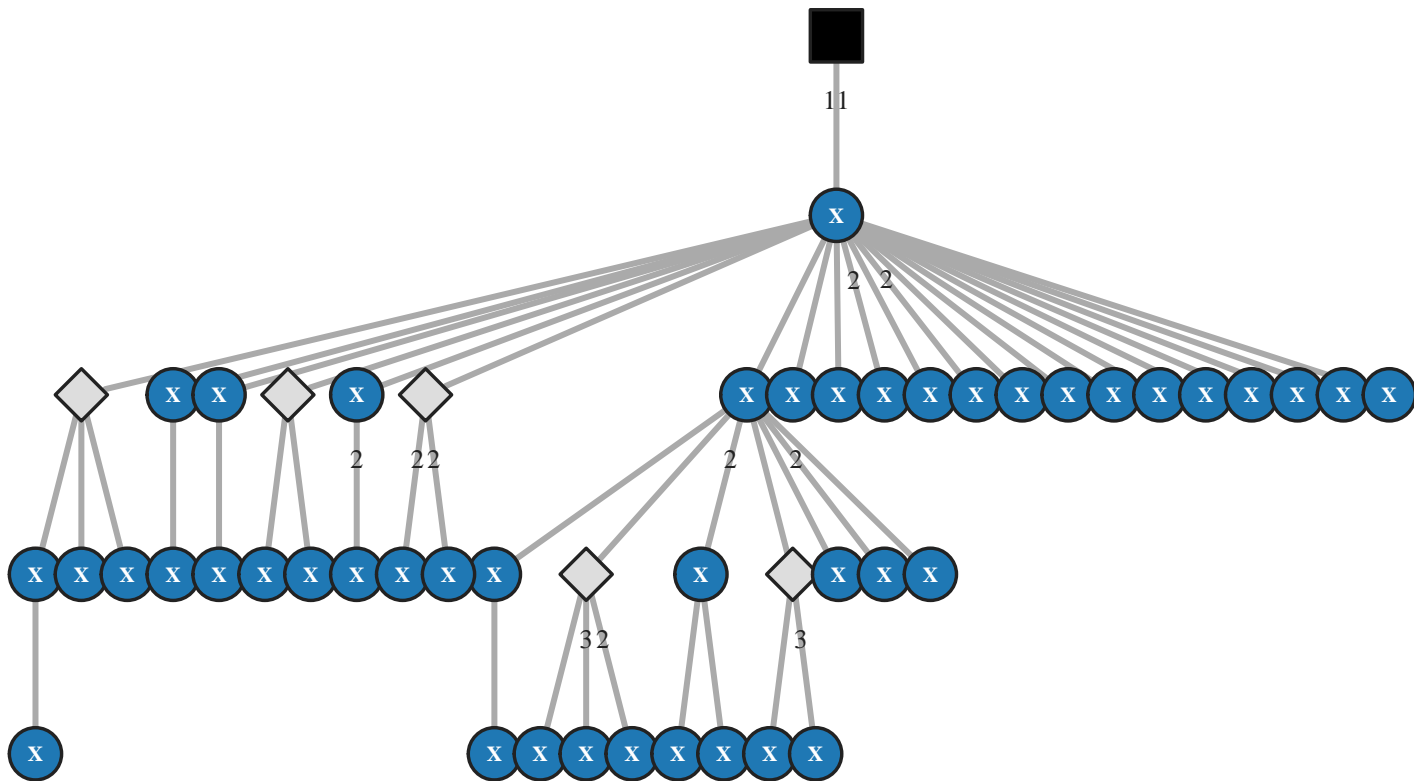
M3 IgG IGHV4-39/J4 60bp (4005)



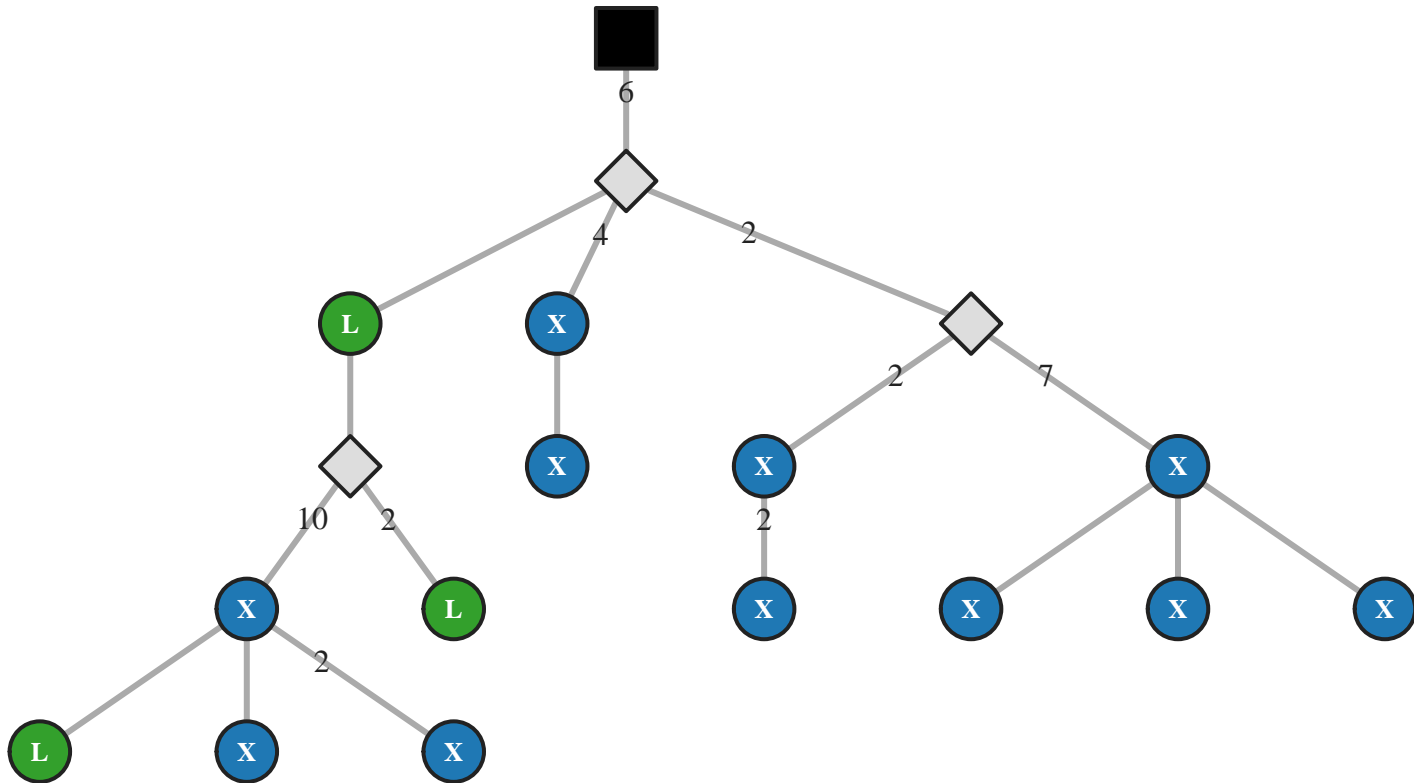
M3 IgG IGHV4-39/J4 60bp (4006)



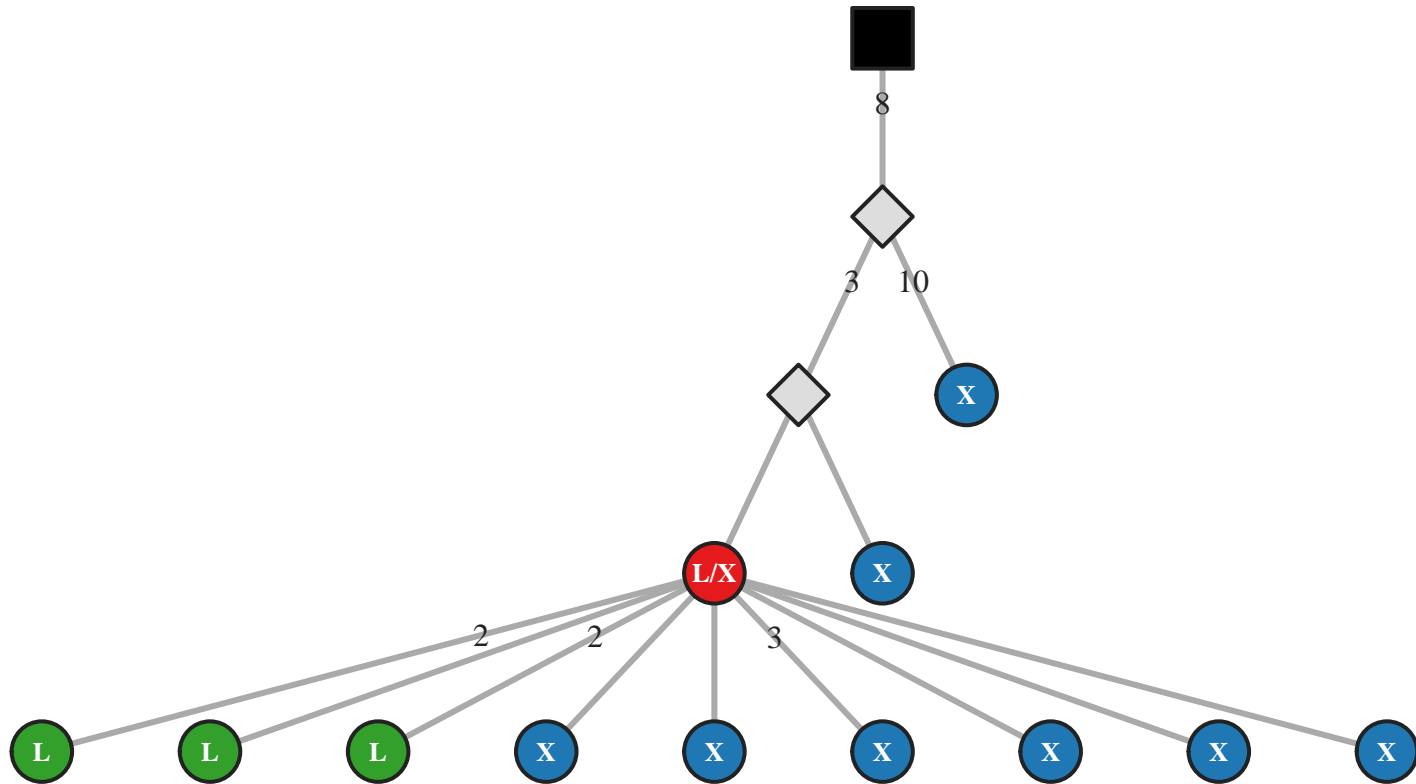
M3 IgG IGHV4-39/J4 60bp (4008)



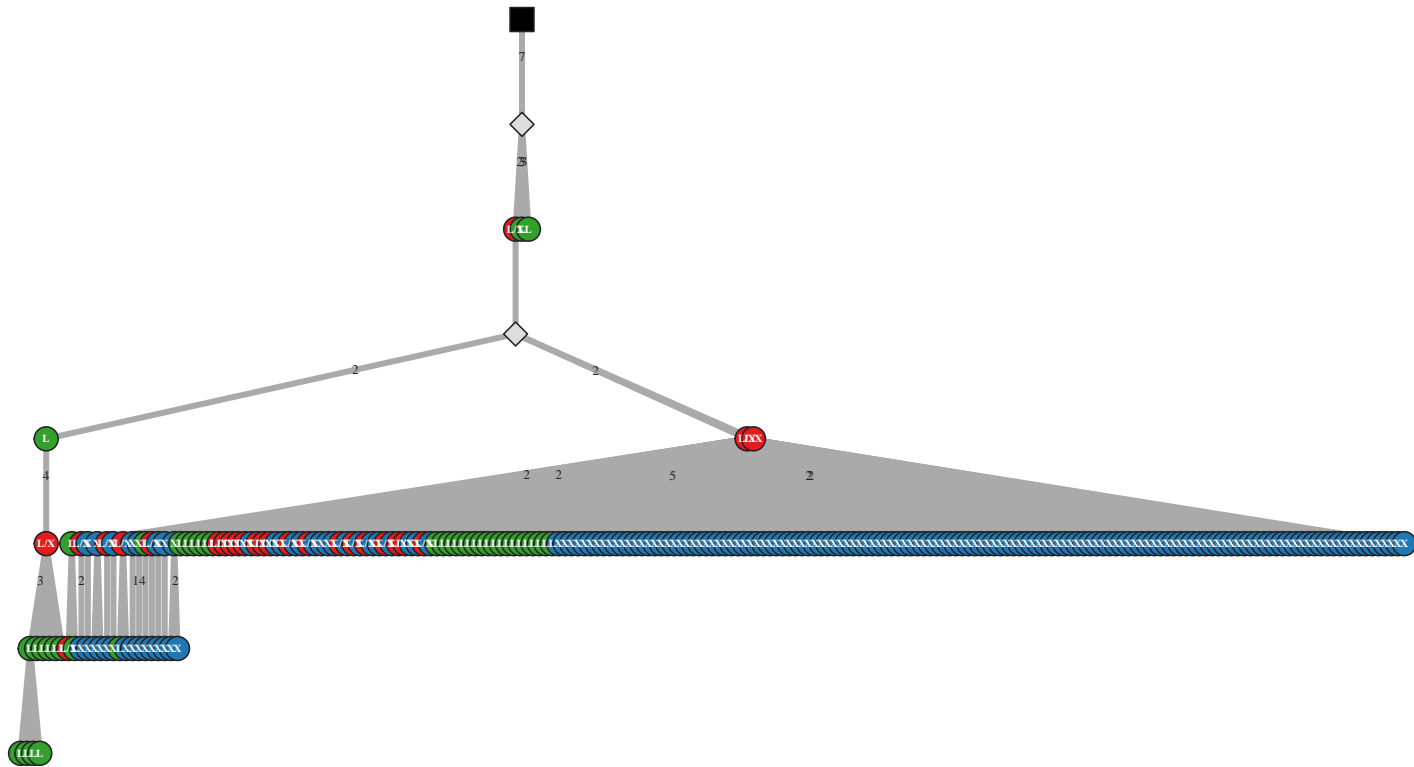
M3 IgG IGHV4-39/J4 63bp (4014)



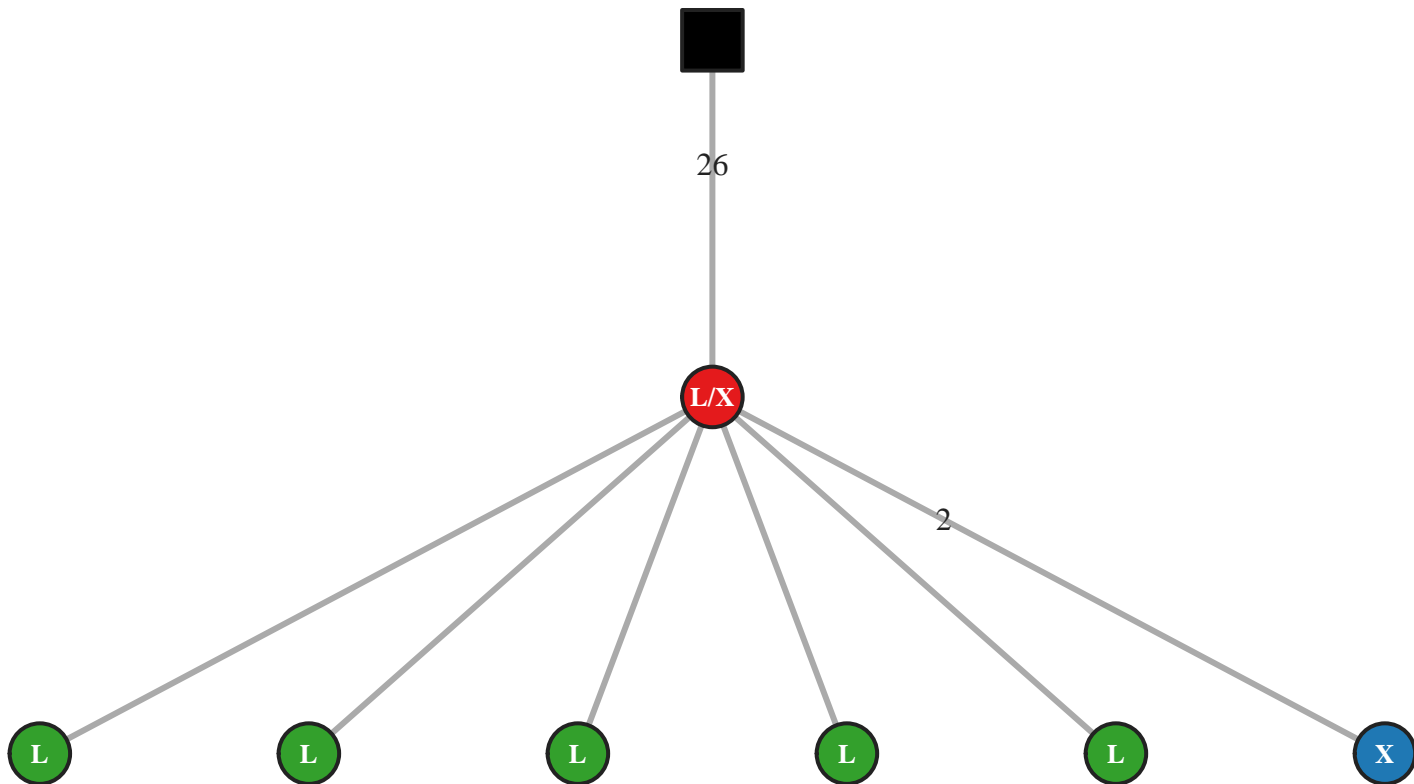
M3 IgG IGHV4-39/J4 63bp (4015)



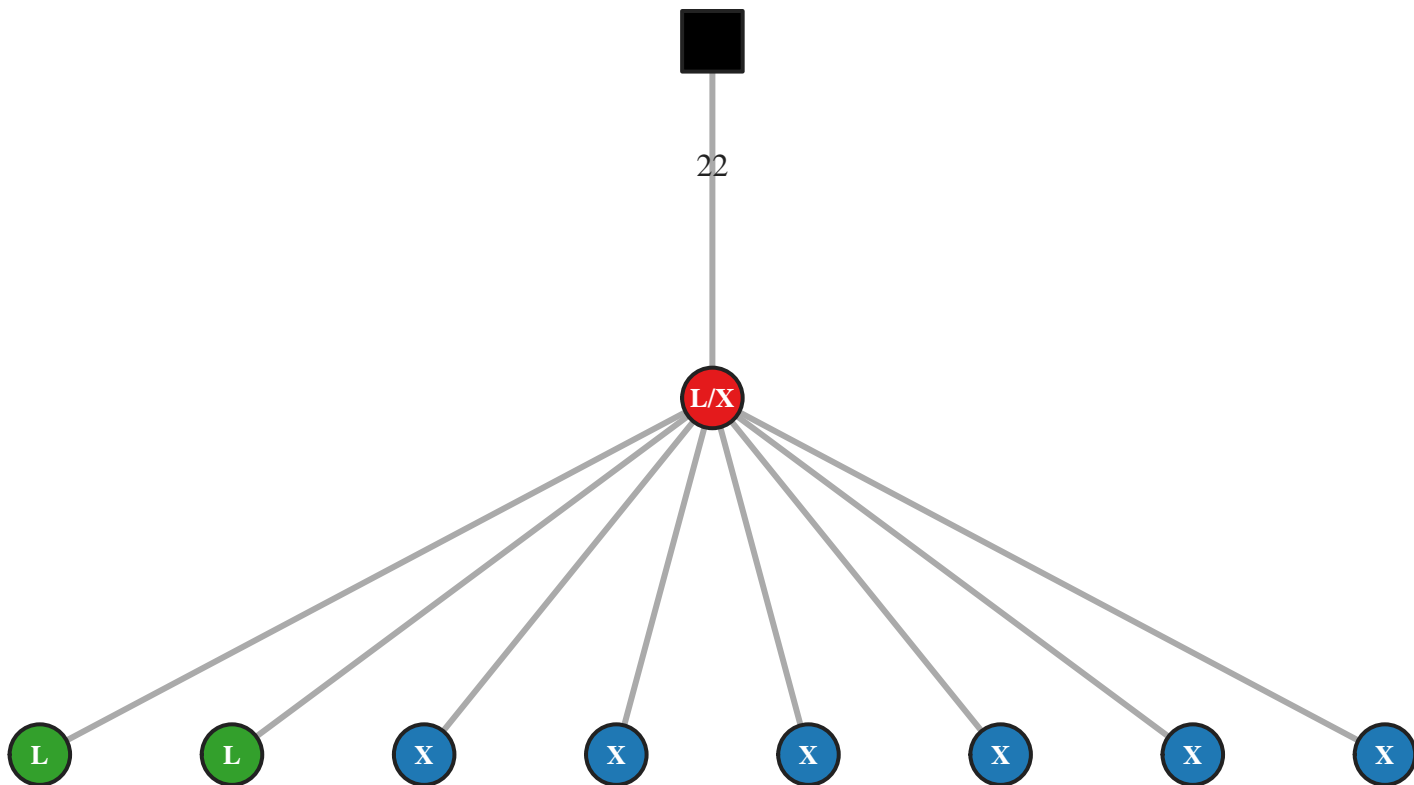
M3 IgG IGHV4-39/J4 81bp (4021)



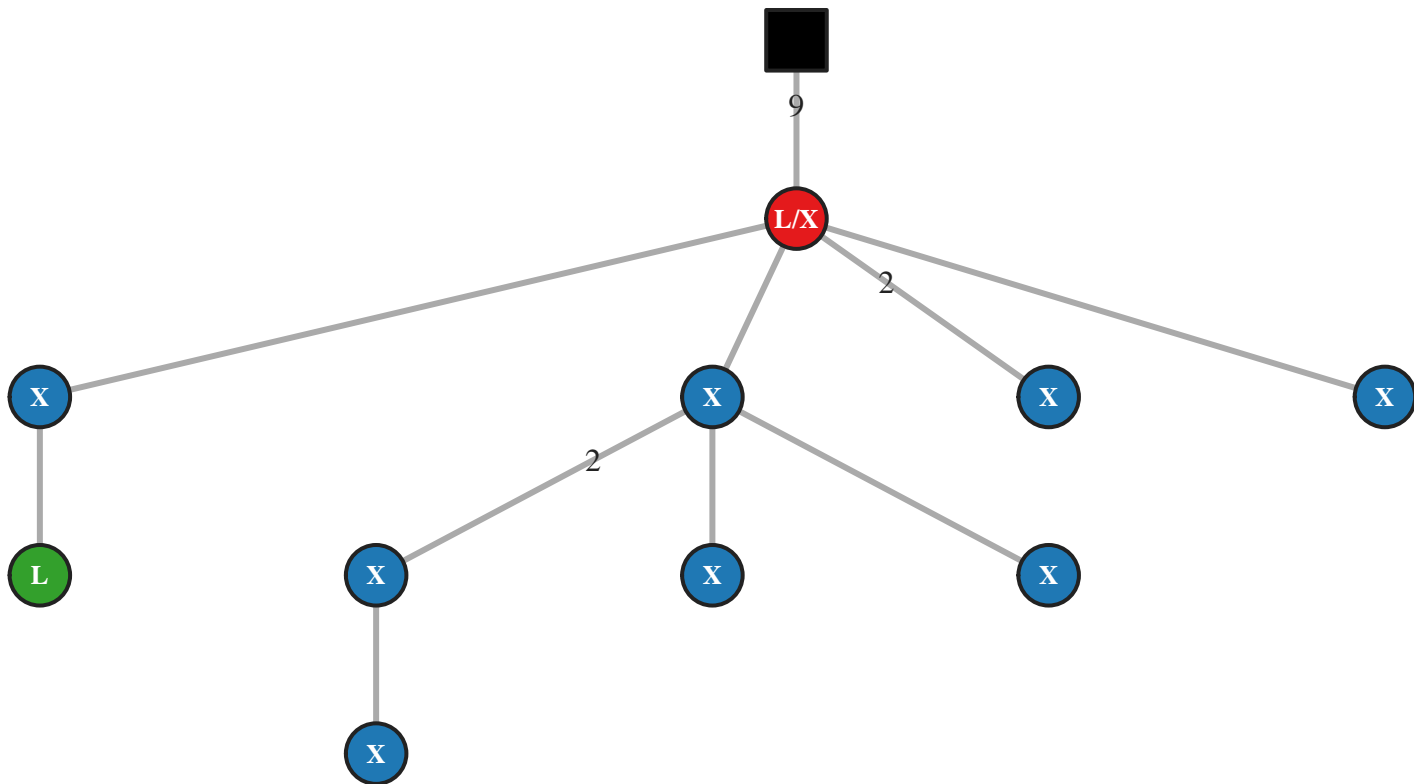
M3 IgG IGHV4-39/J5 39bp (15178)



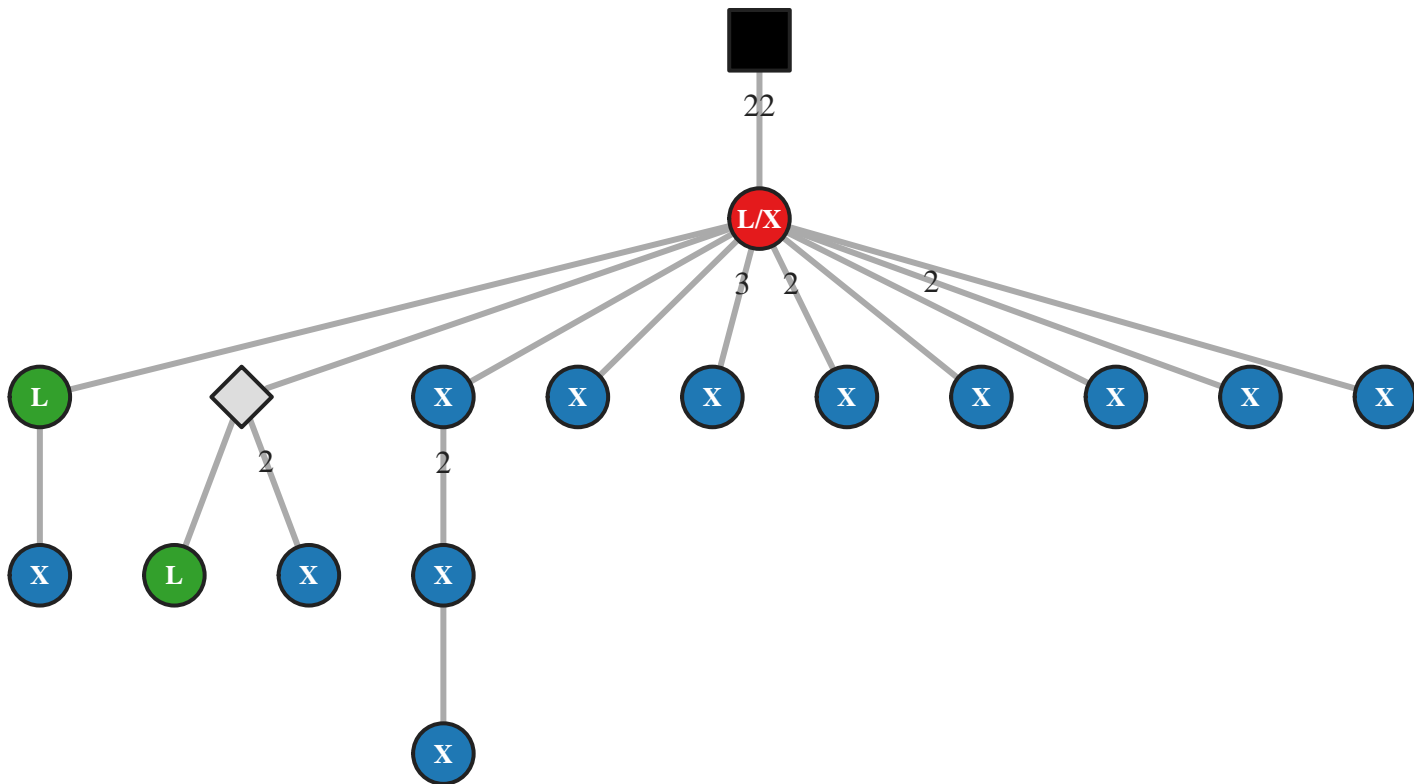
M3 IgG IGHV4-39/J5 48bp (4025)



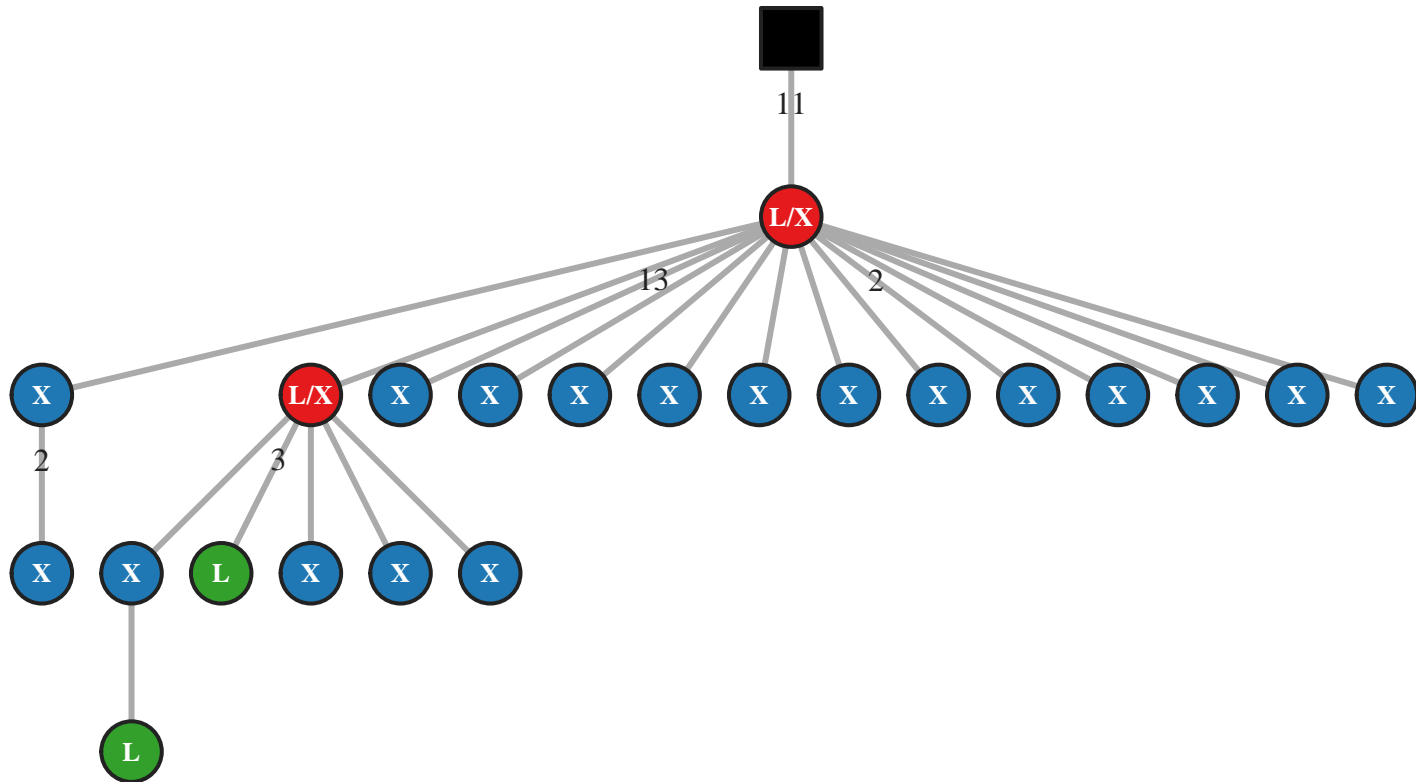
M3 IgG IGHV4-39/J5 51bp (12097)



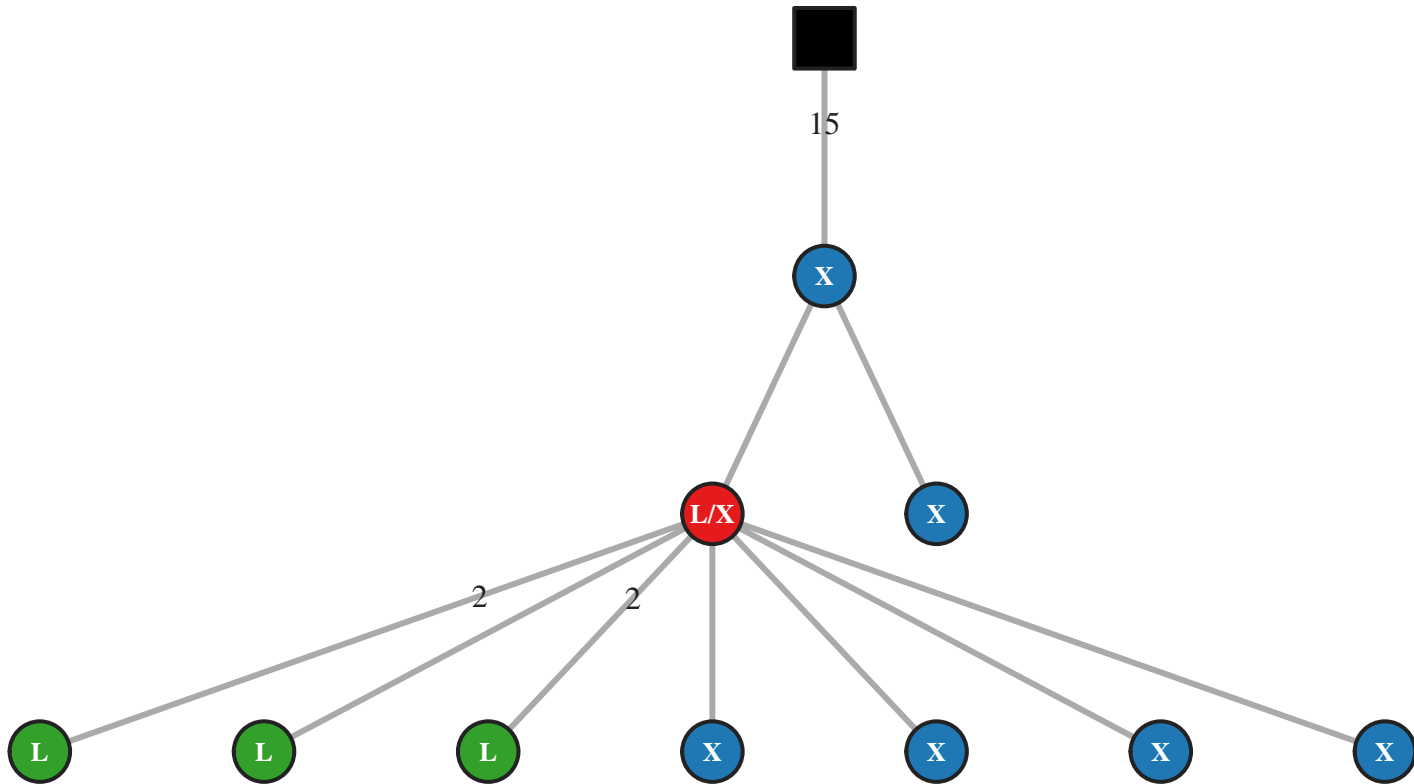
M3 IgG IGHV4-39/J5 51bp (12100)



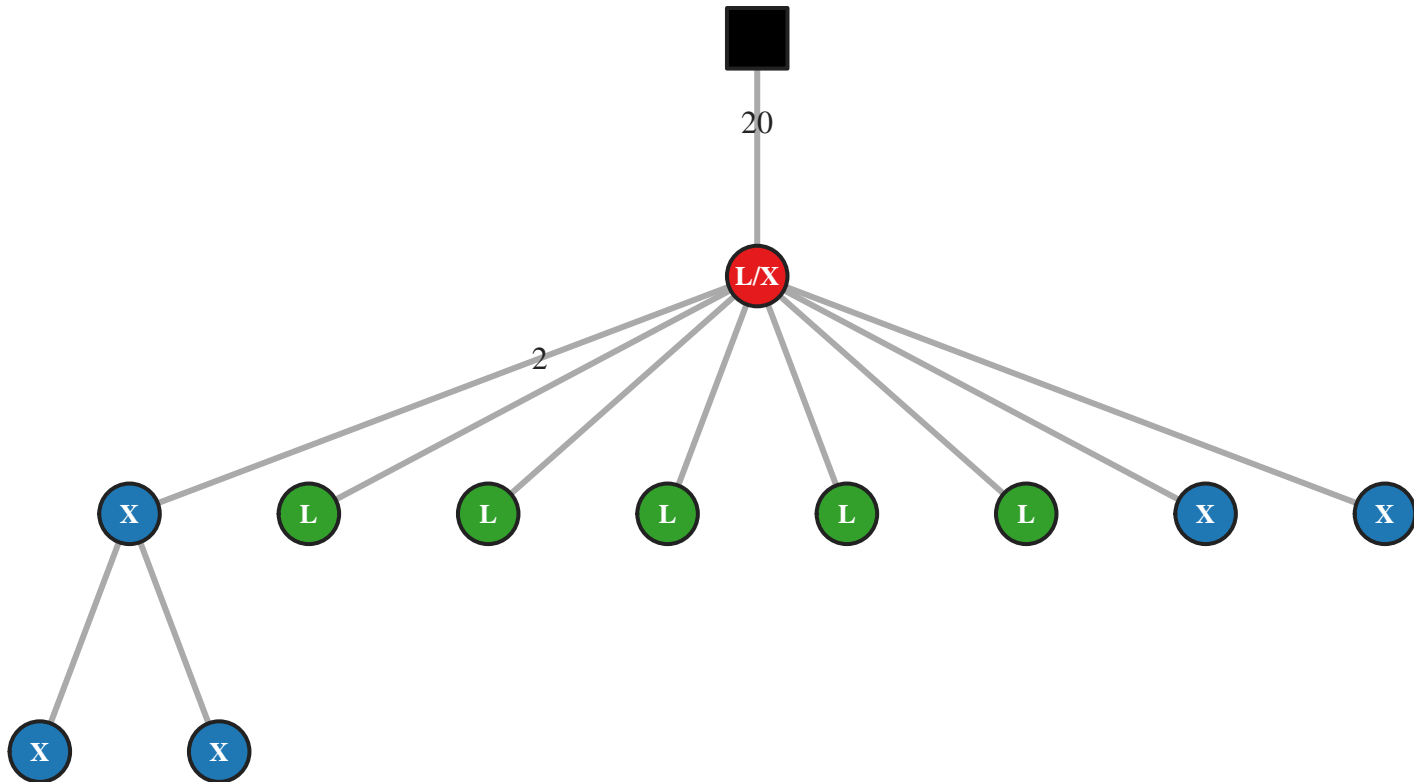
M3 IgG IGHV4-39/J5 60bp (7808)



M3 IgG IGHV4-39/J5 60bp (7812)



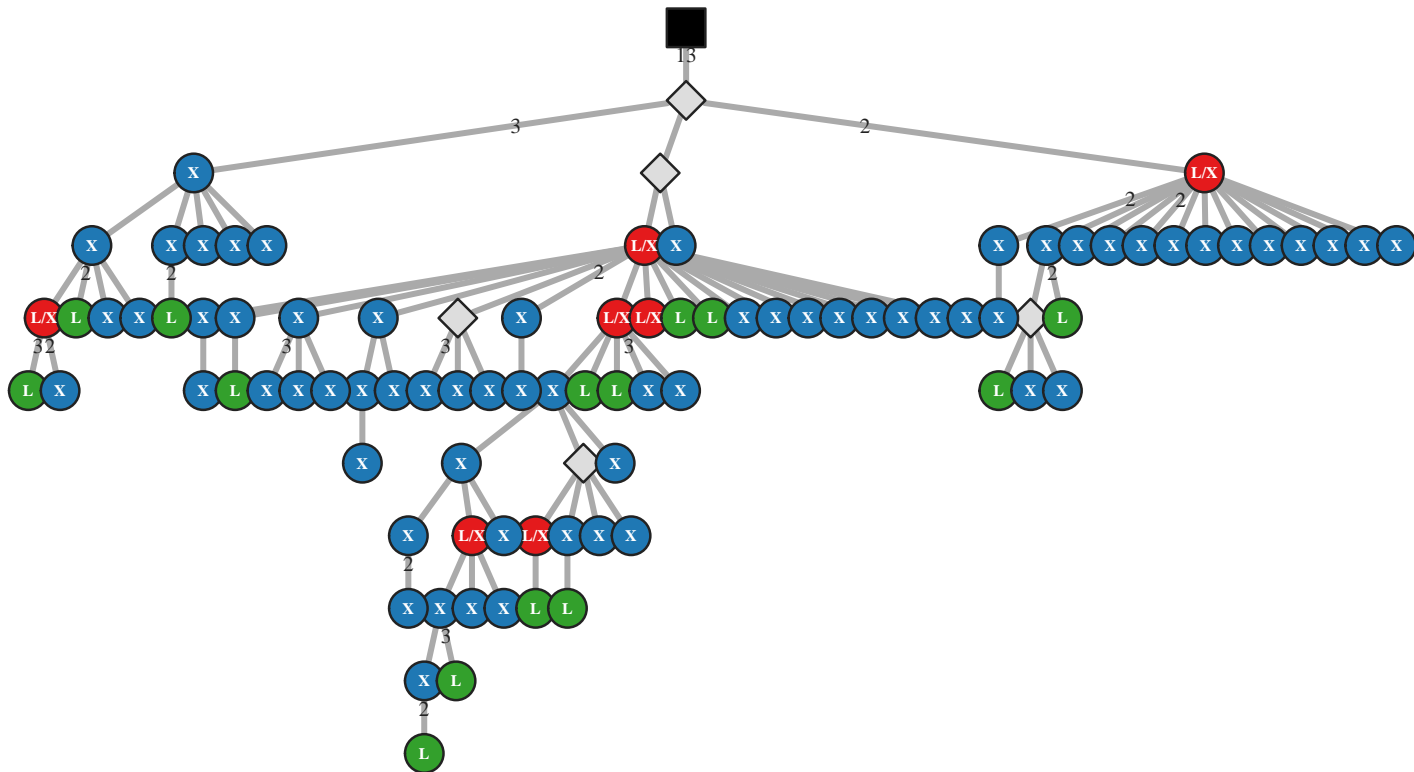
M3 IgG IGHV4-39/J5 66bp (4027)



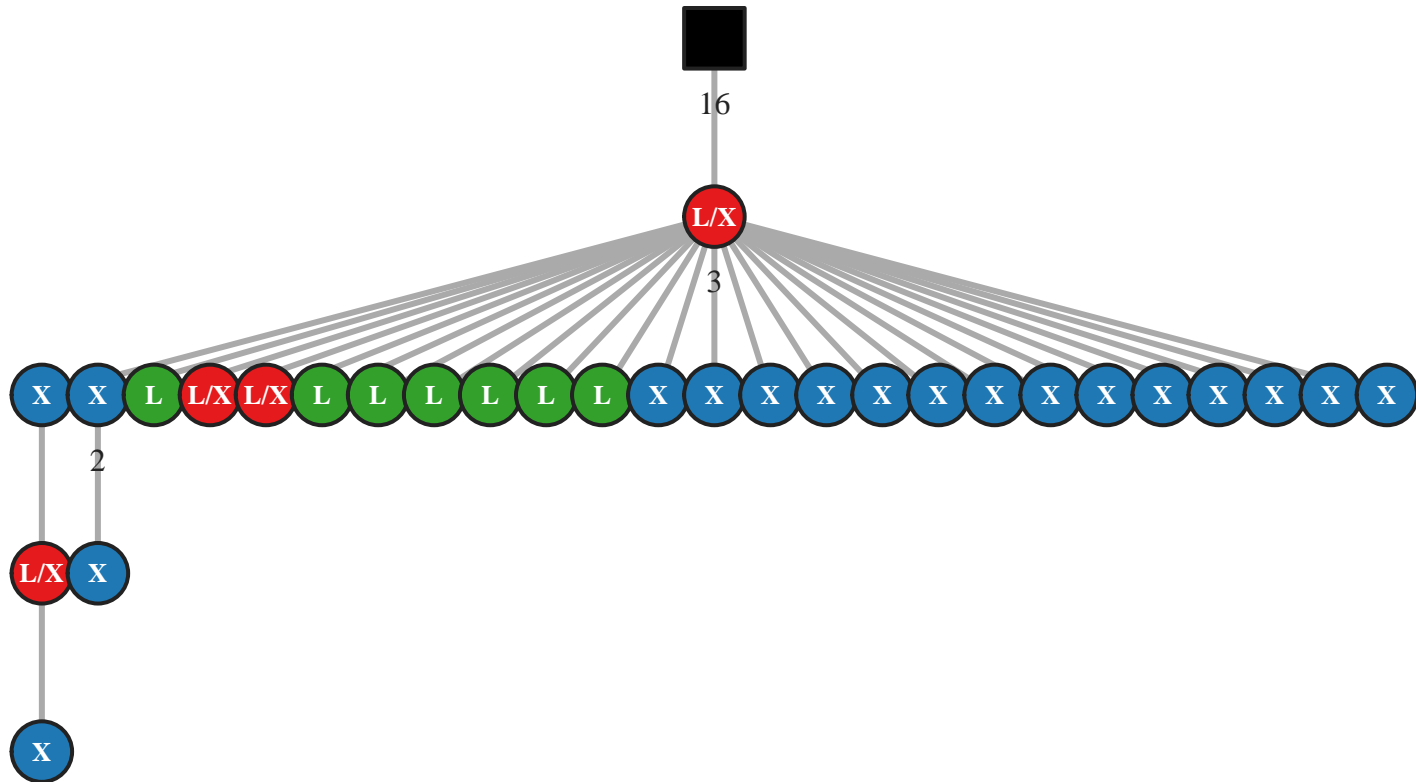
M3 IgG IGHV4-39/J5 69bp (7813)



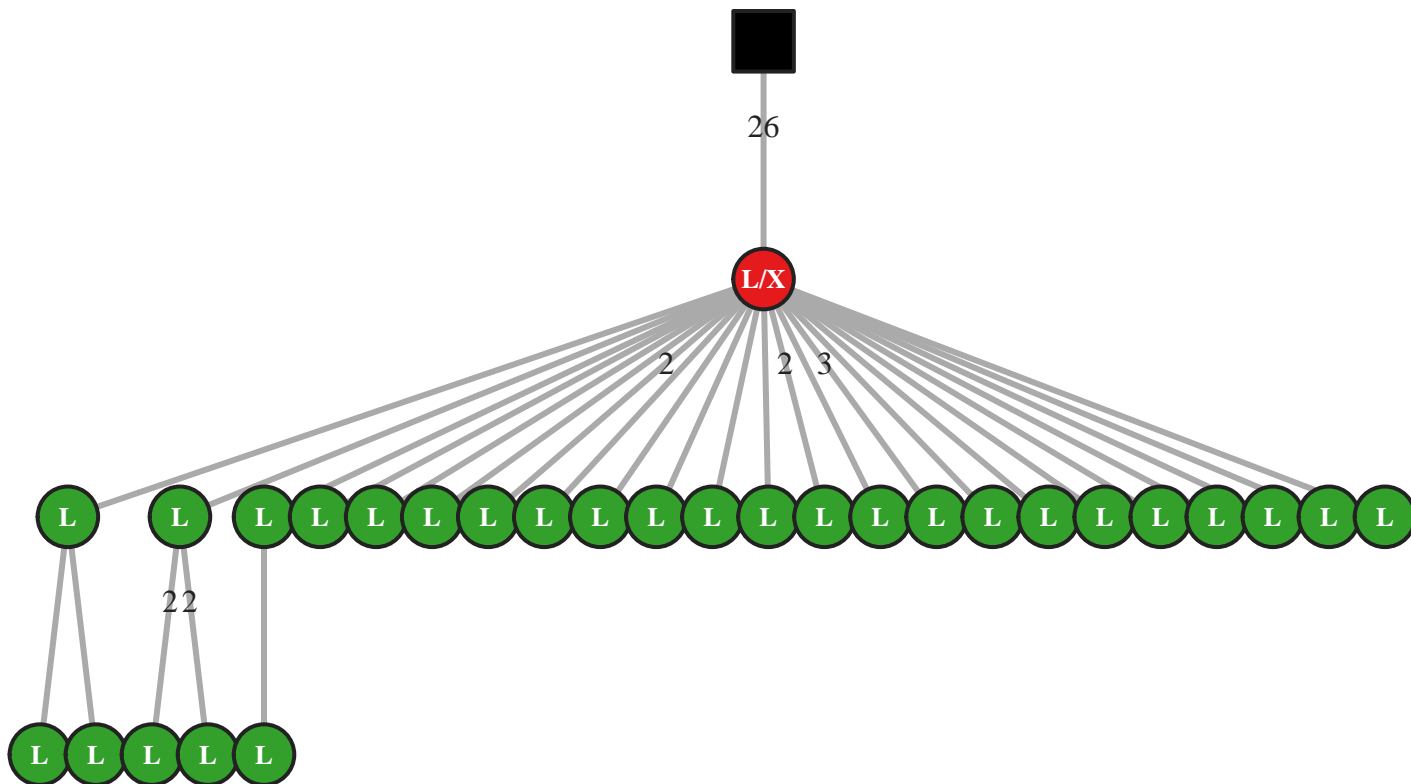
M3 IgG IGHV4-39/J6 51bp (12109)



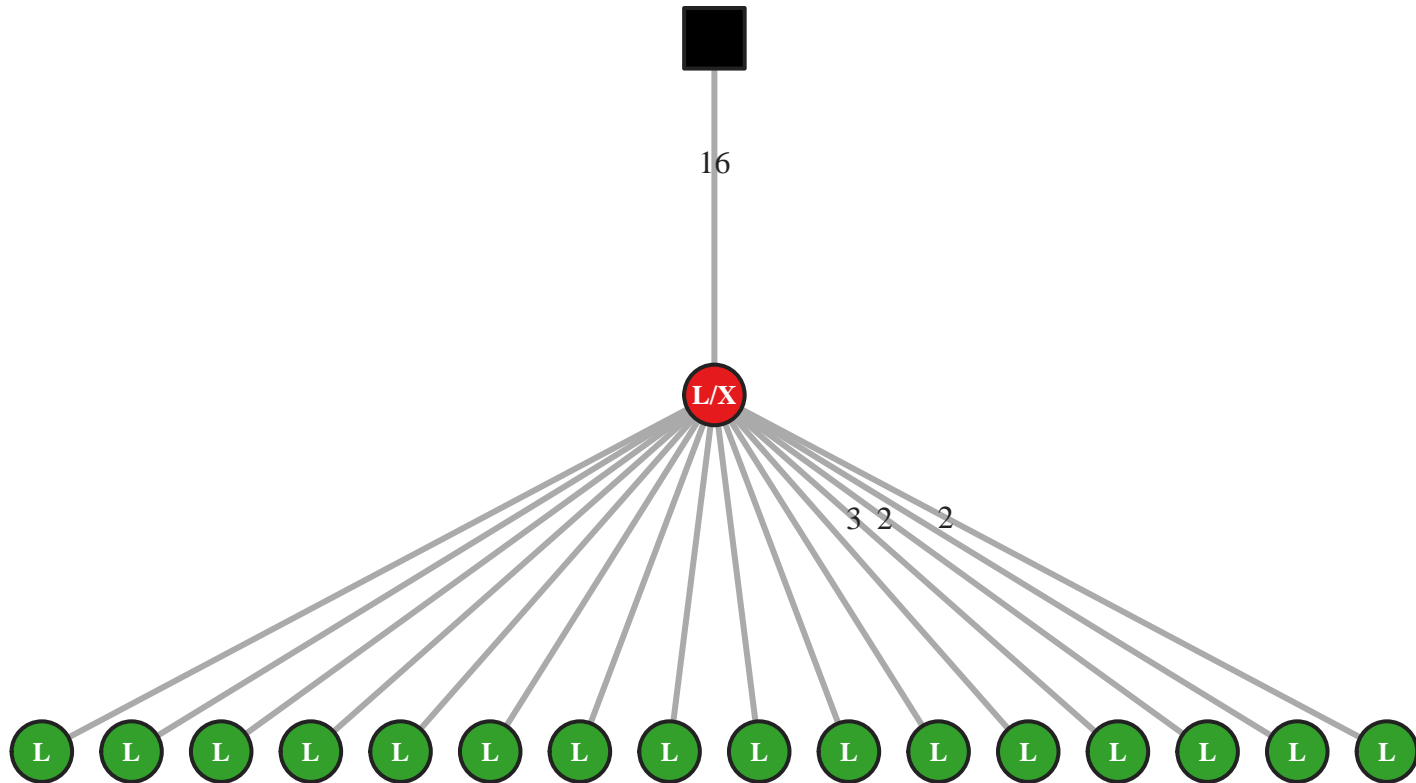
M3 IgG IGHV4-4/J3 42bp (12111)



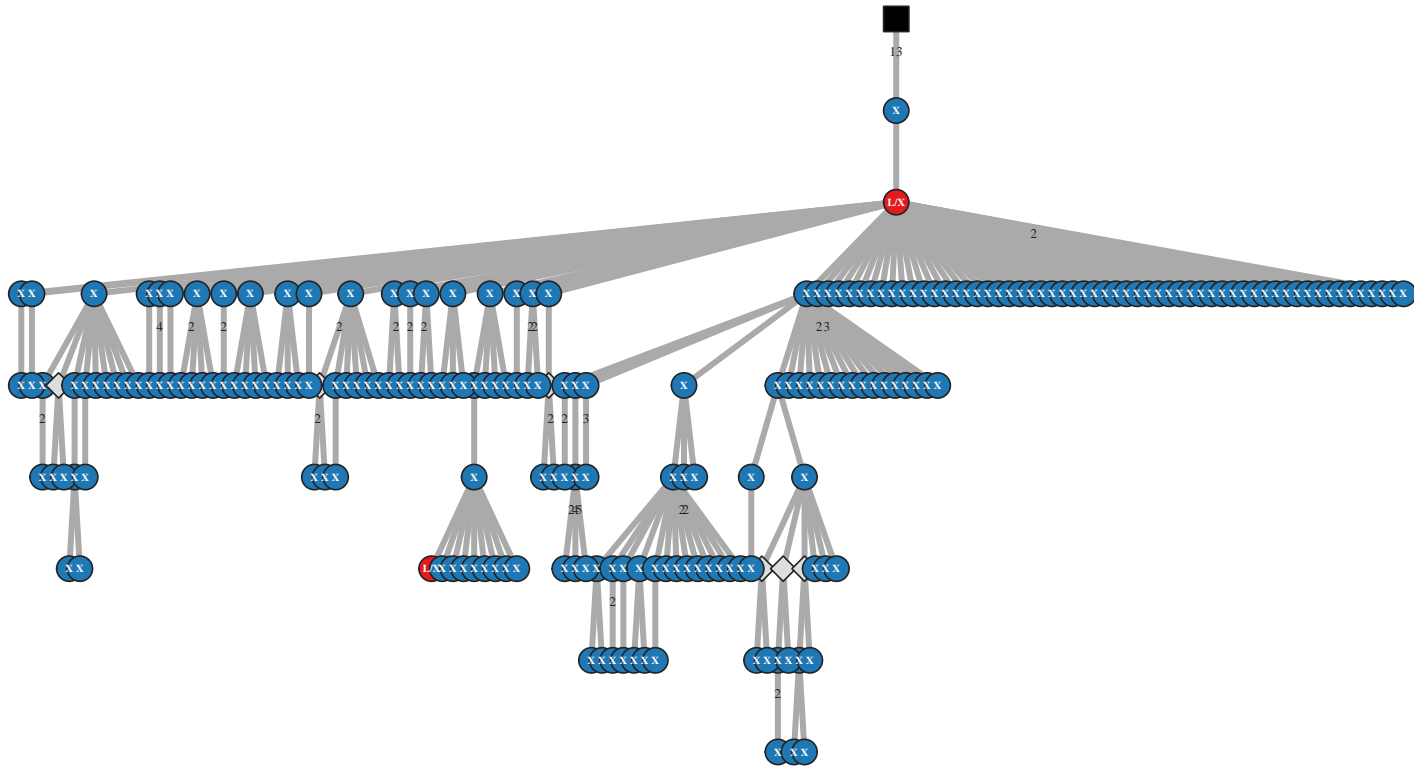
M3 IgG IGHV4-4/J4 39bp (12117)



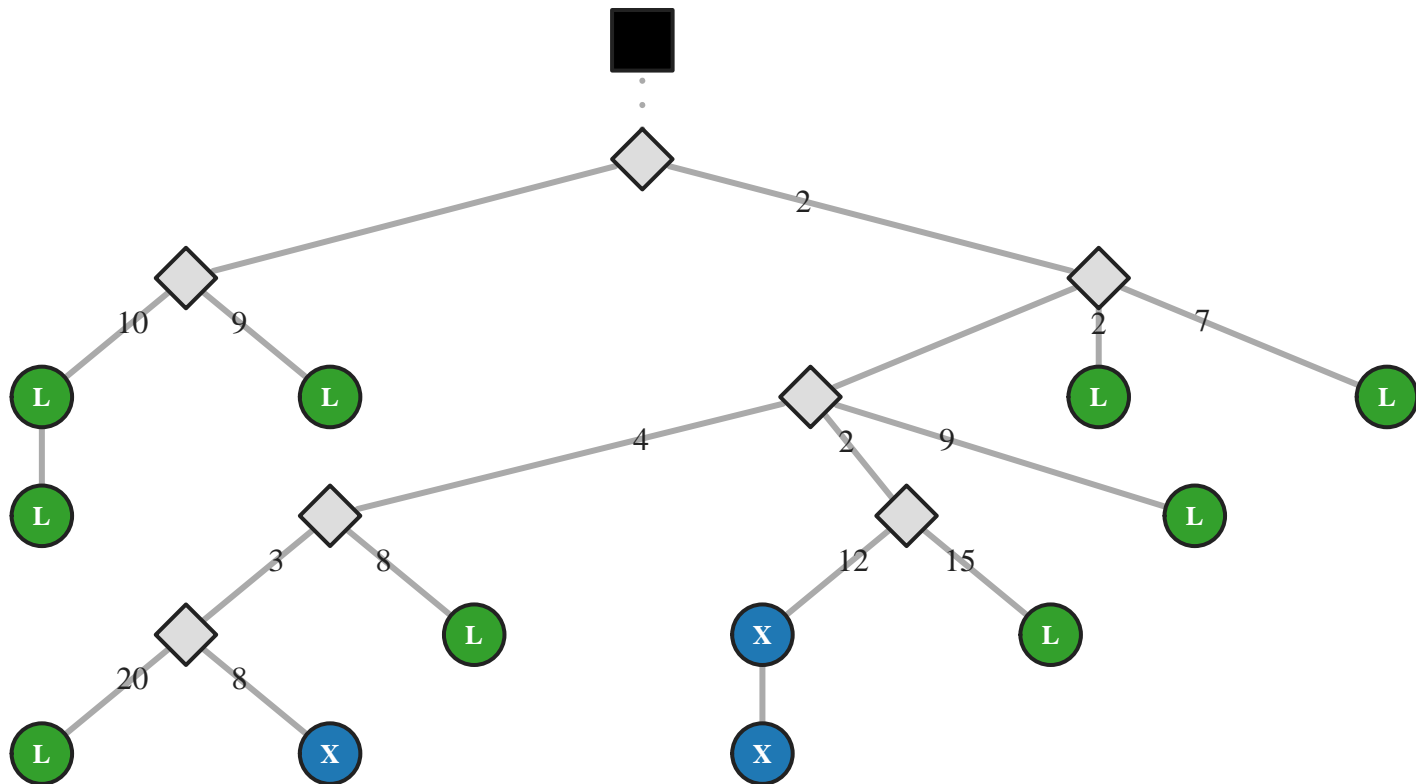
M3 IgA IGHV4-4/J4 45bp (10381)



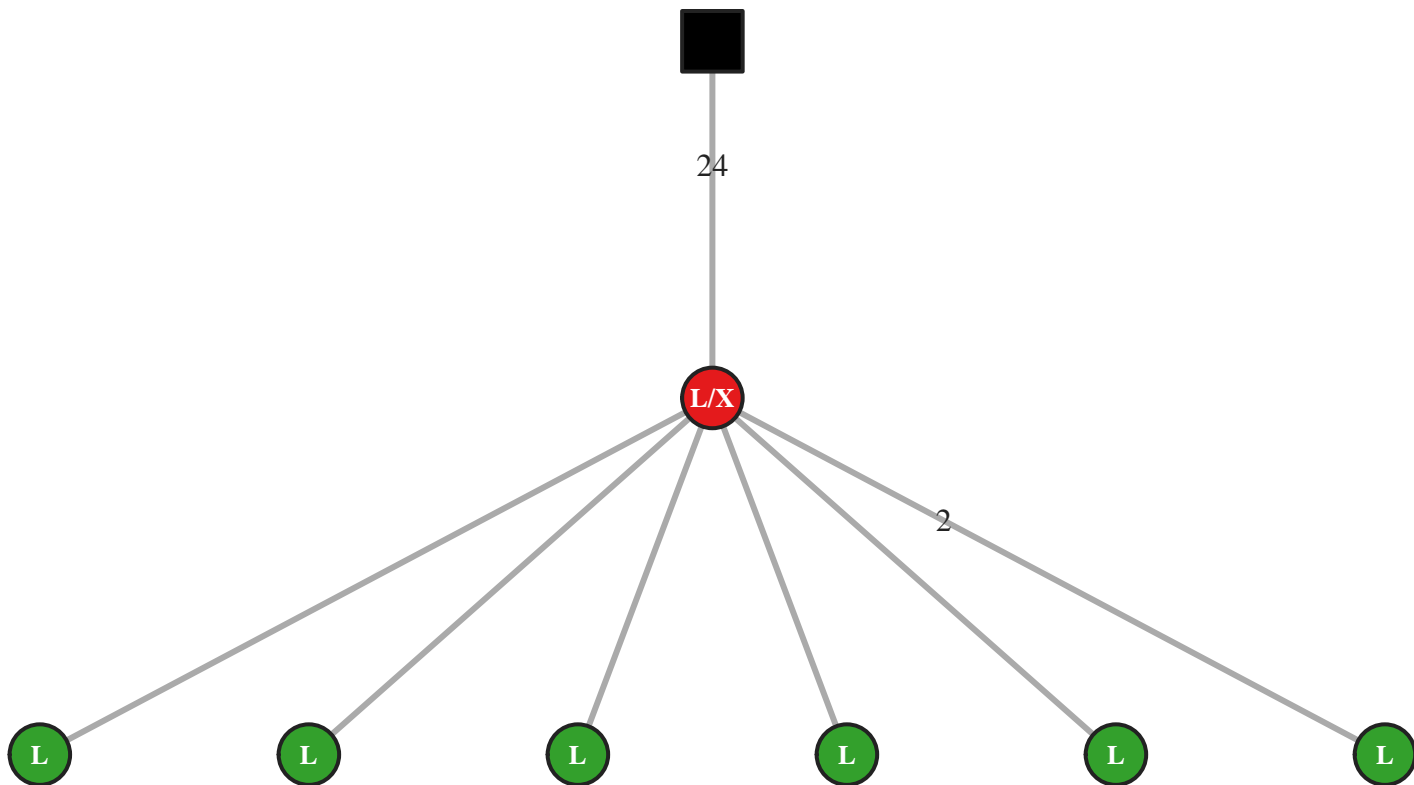
M3 IgG IGHV4-4/J4 45bp (4047)



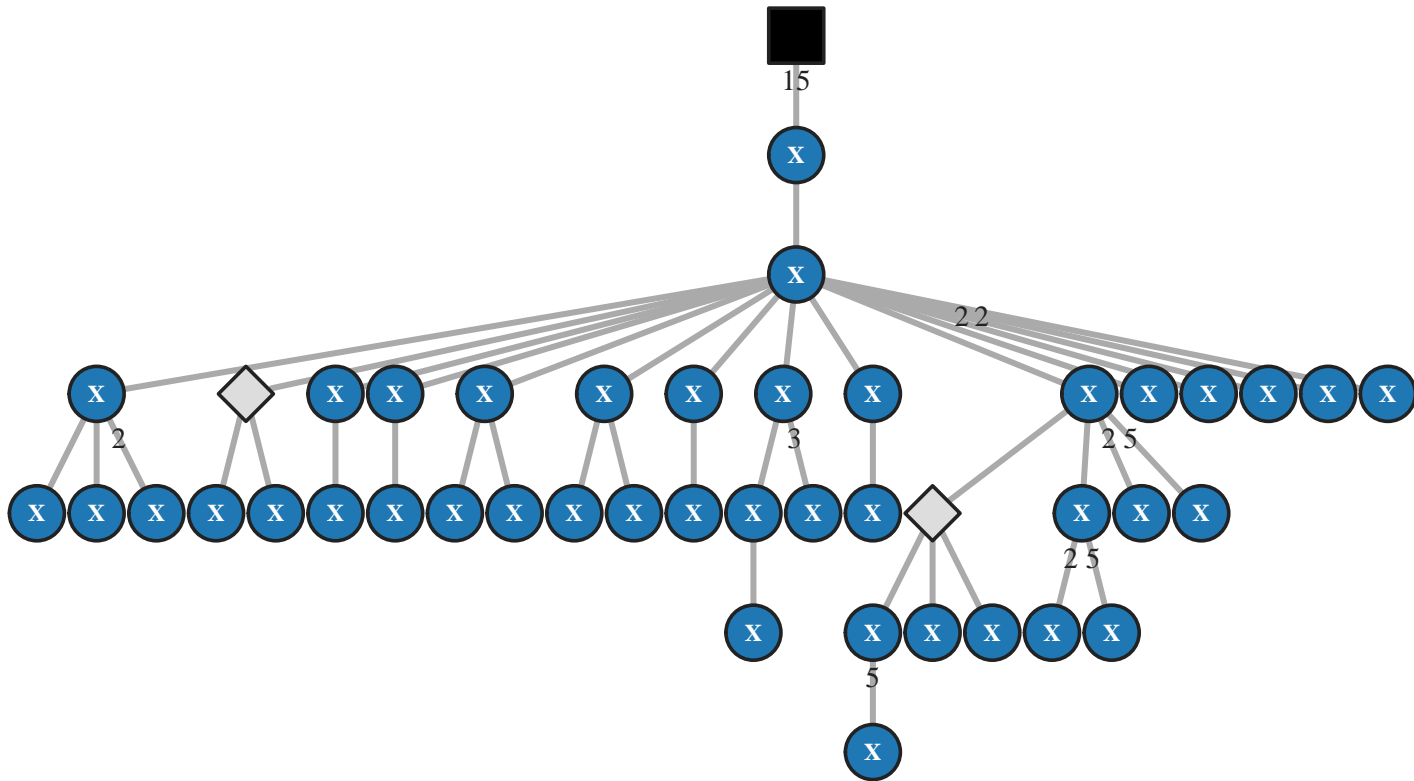
M3 IgG IGHV4-4/J4 60bp (12131)



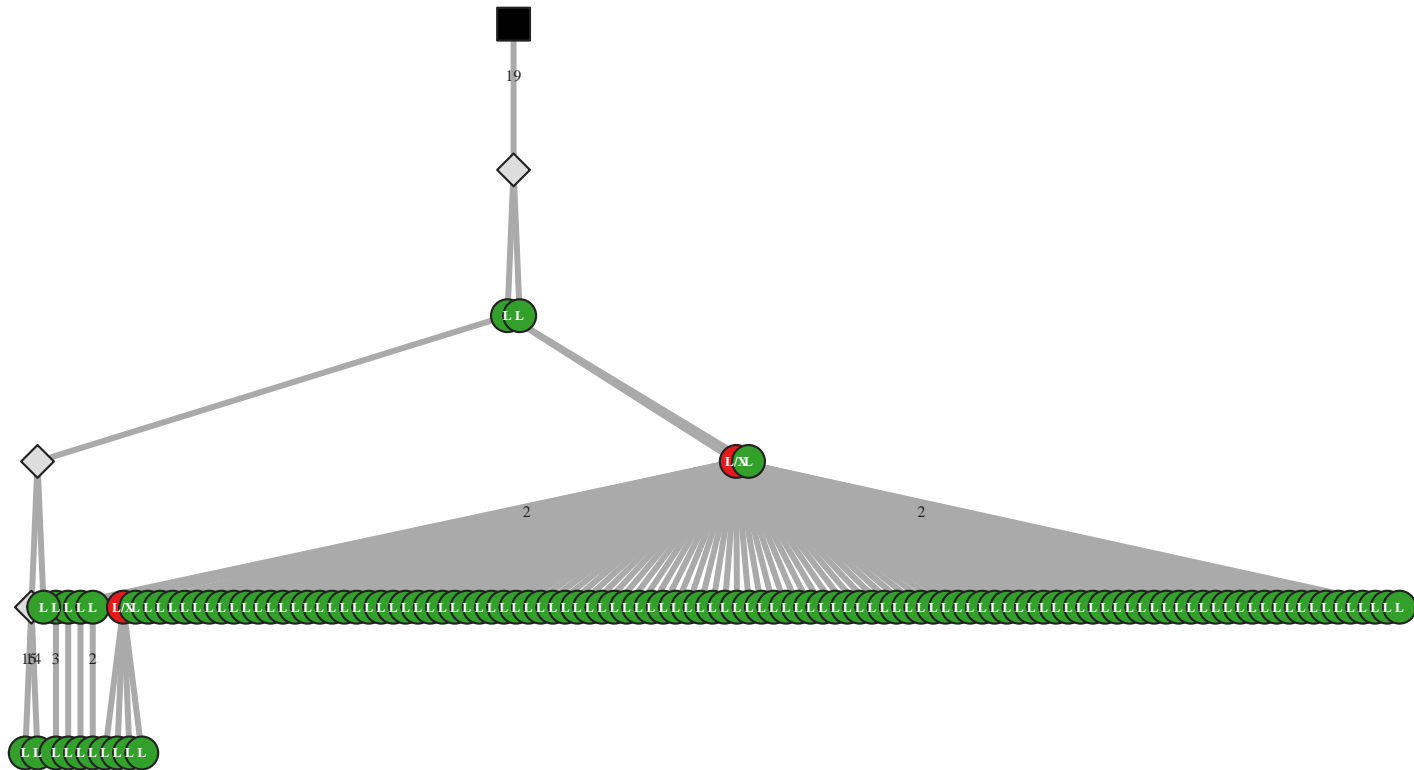
M3 IgG IGHV4-4/J4 63bp (12136)



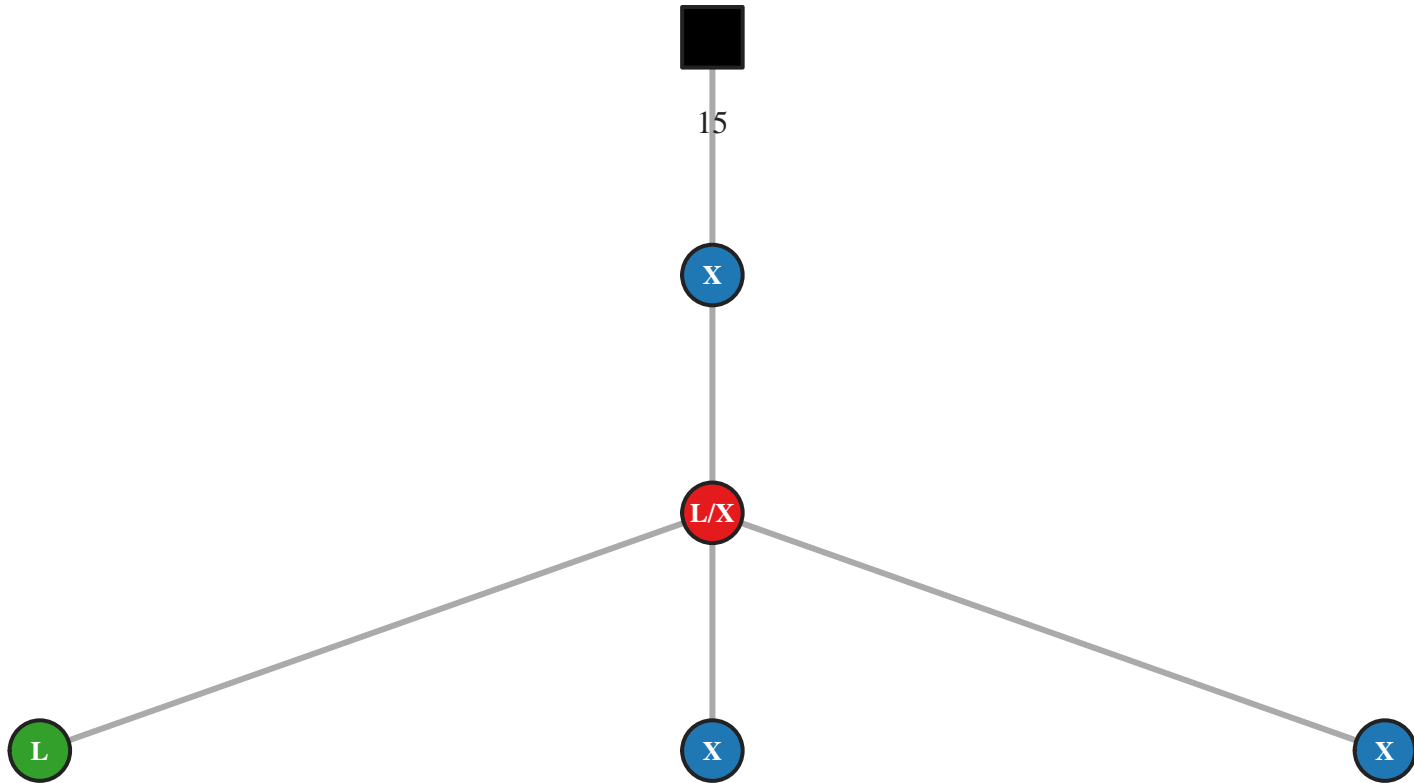
M3 IgG IGHV4-4/J4 69bp (7837)



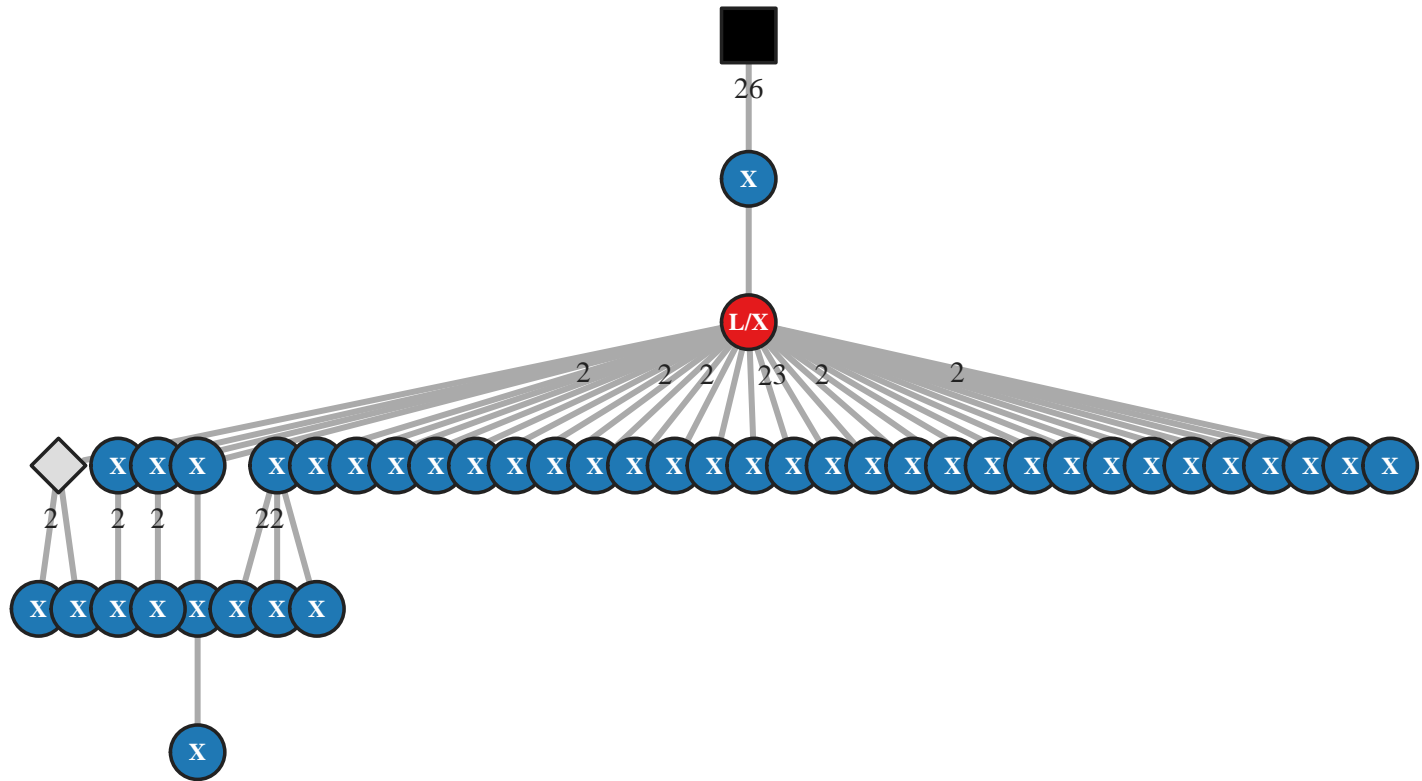
M3 IgG IGHV4-4/J5 42bp (7839)



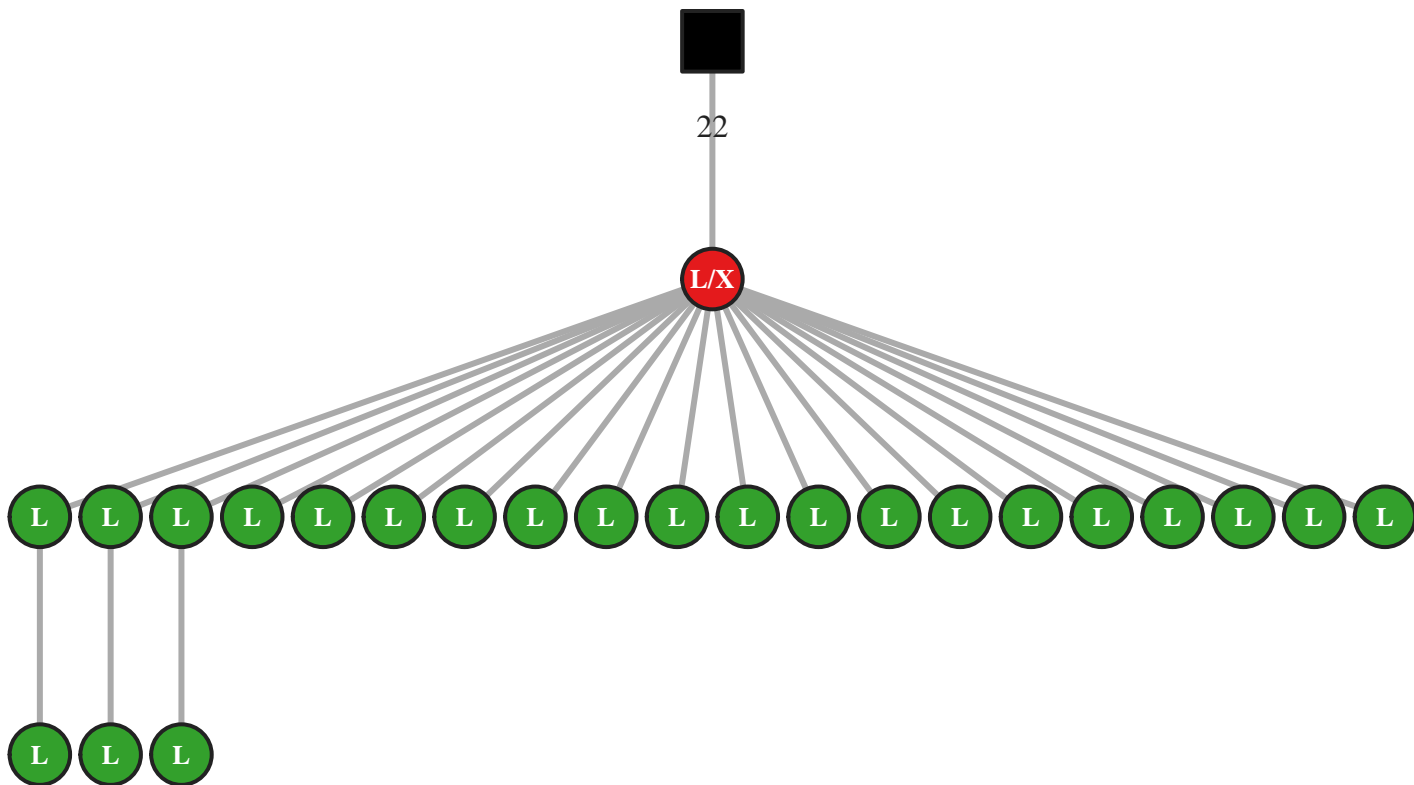
M3 IgG IGHV4-4/J5 57bp (7842)



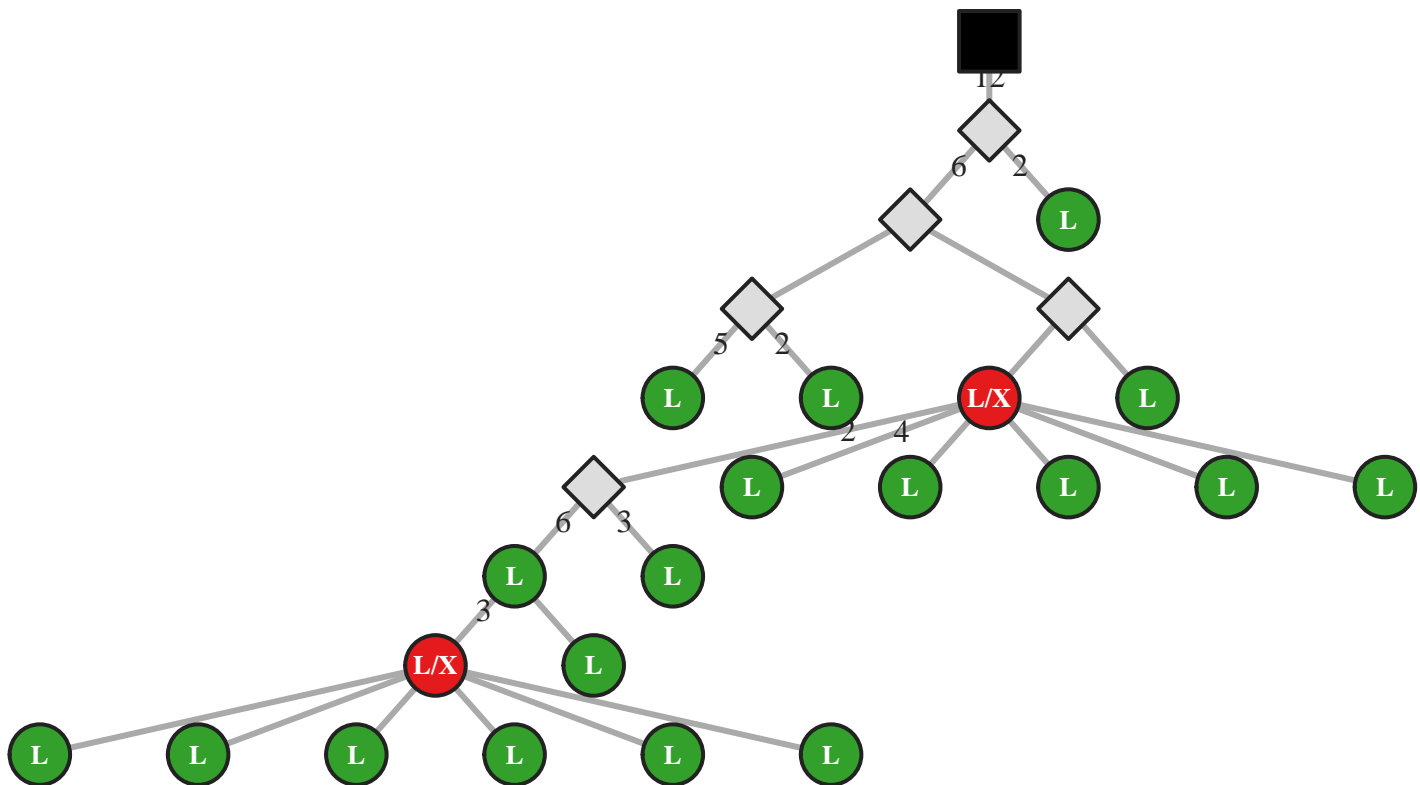
M3 IgG IGHV4-4/J6 60bp (4058)



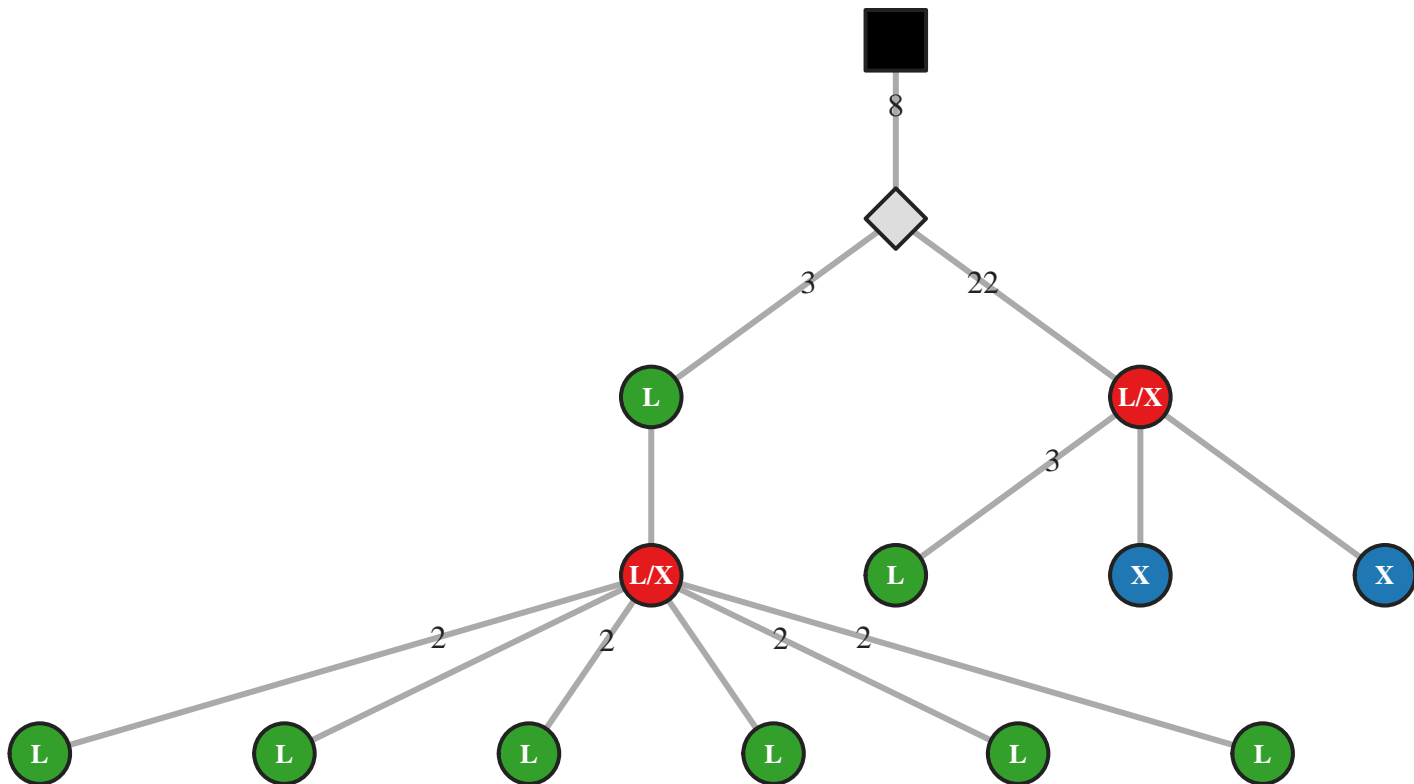
M3 IgA IGHV4-4/J6 72bp (2328)



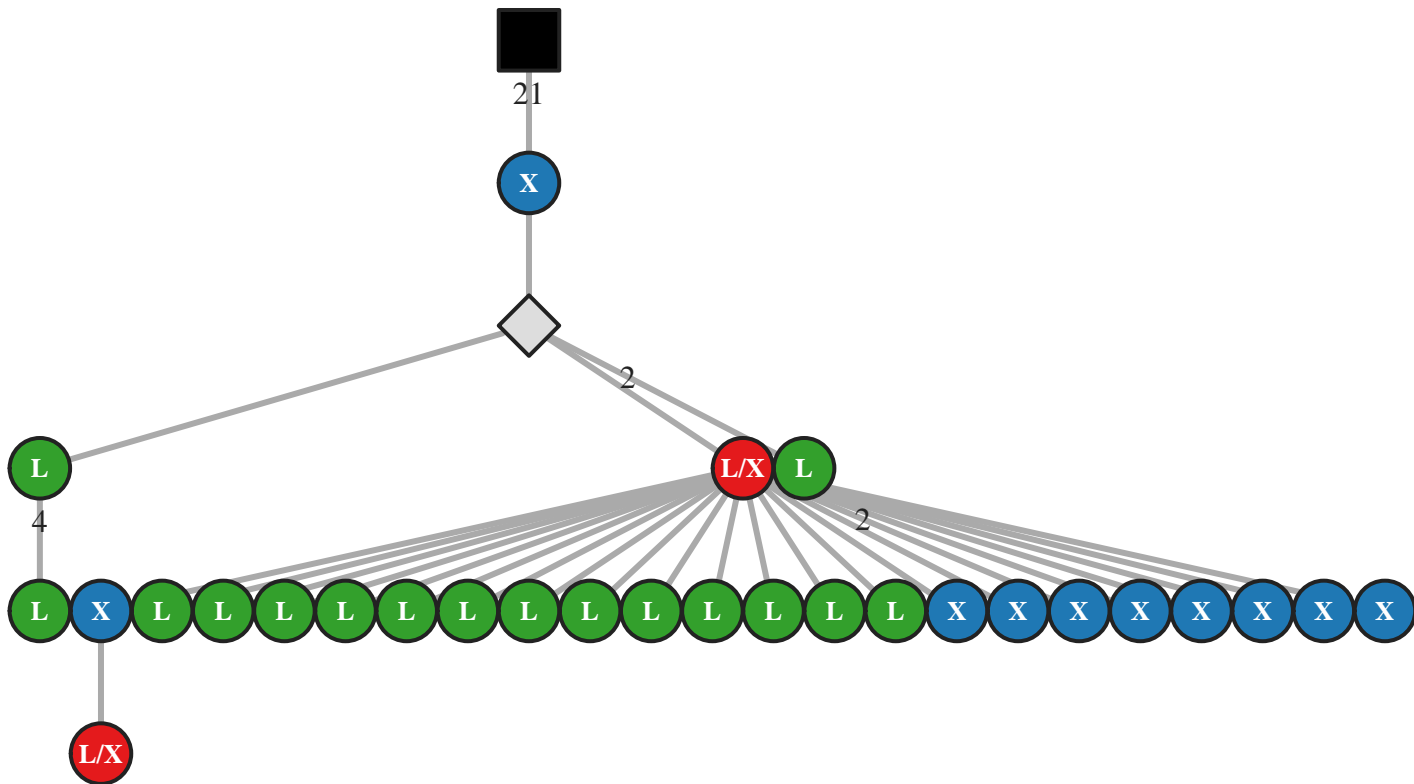
M3 IgA IGHV4-59/J4 39bp (6288)



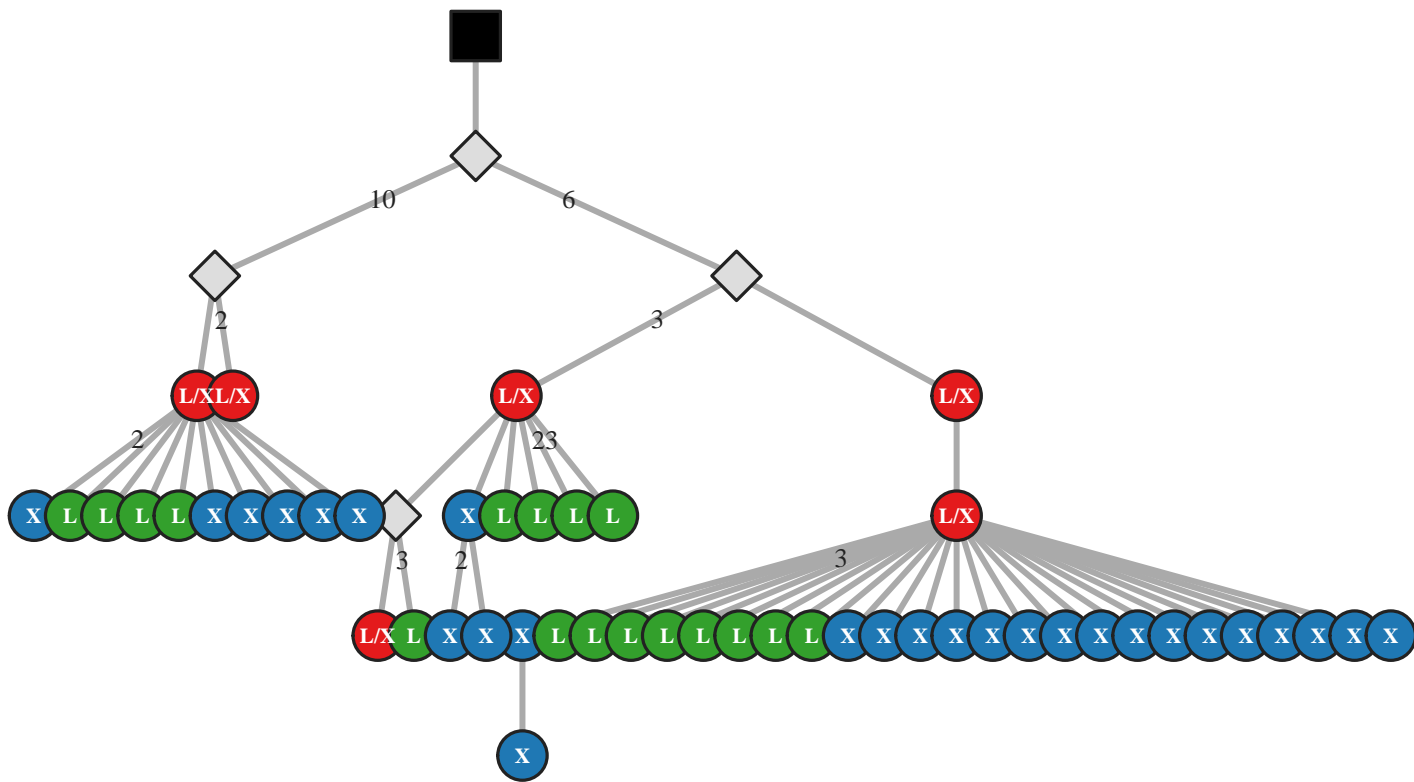
M3 IgG IGHV4-59/J4 39bp (15226)



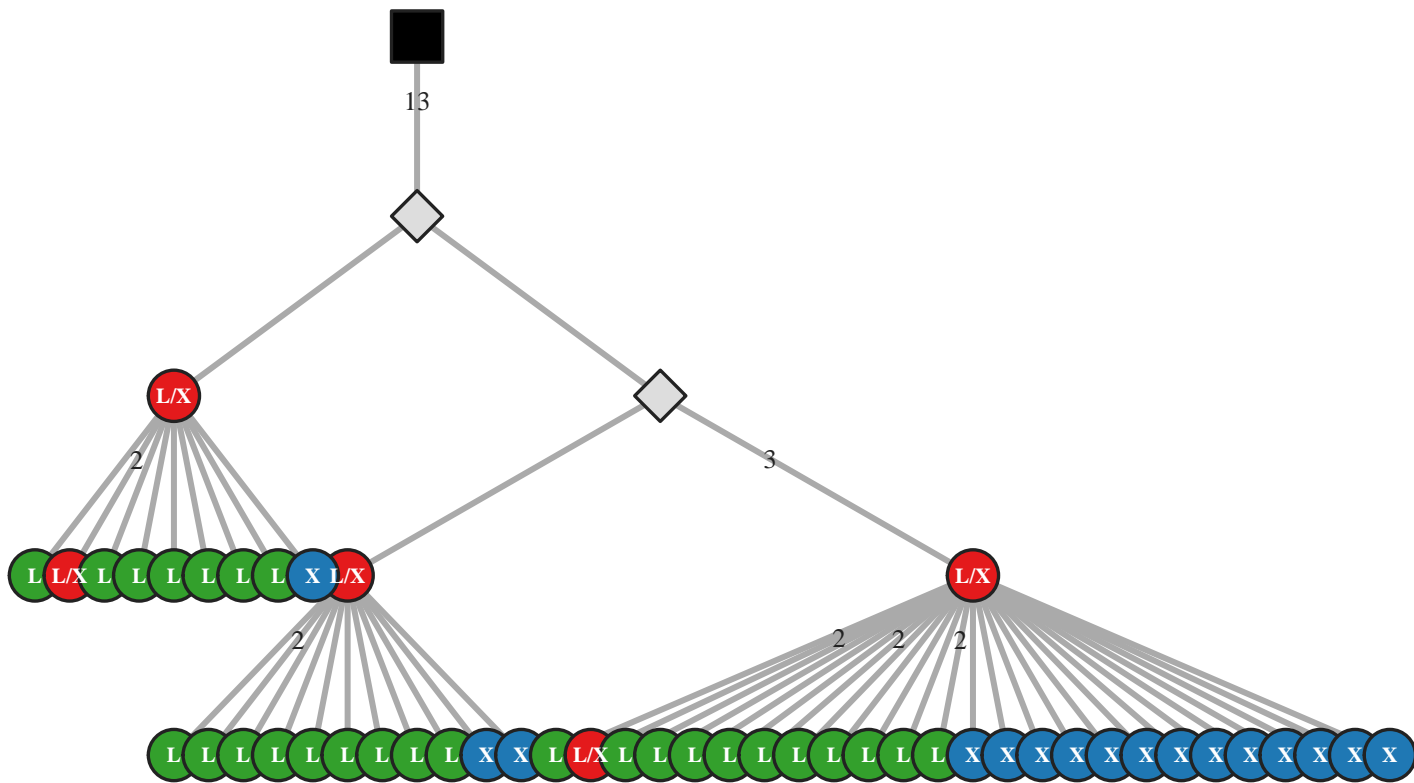
M3 IgG IGHV4-59/J4 48bp (4078)



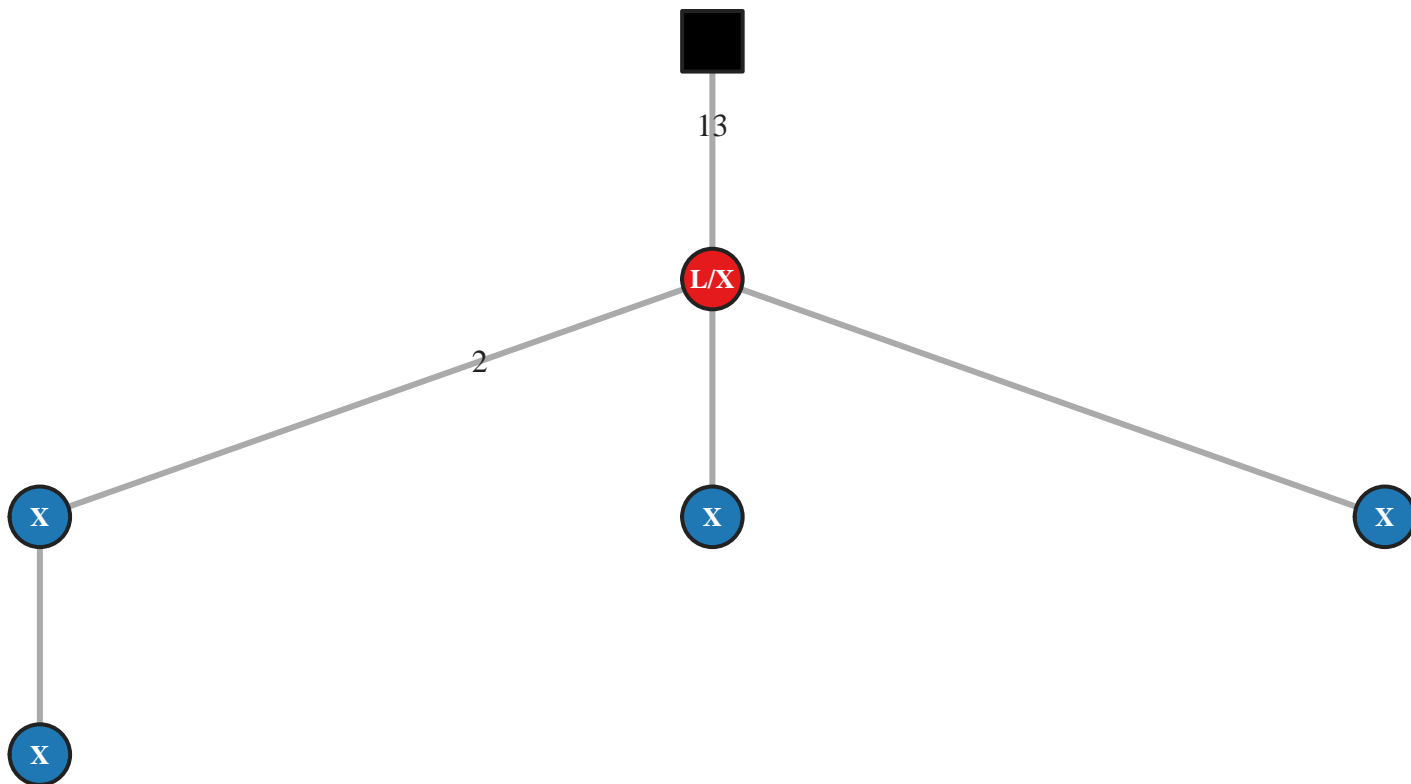
M3 IgG IGHV4-59/J4 54bp (12193)



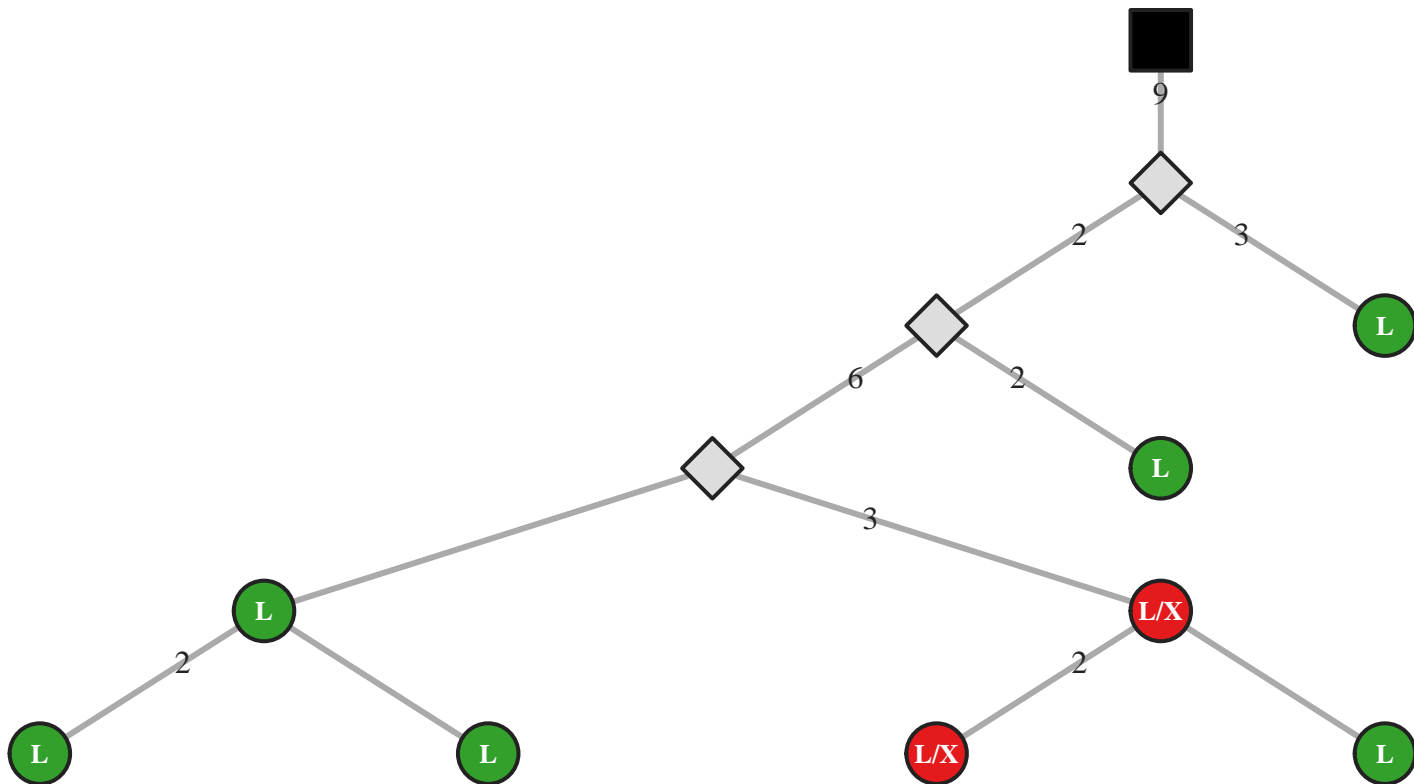
M3 IgG IGHV4-59/J4 54bp (12198)



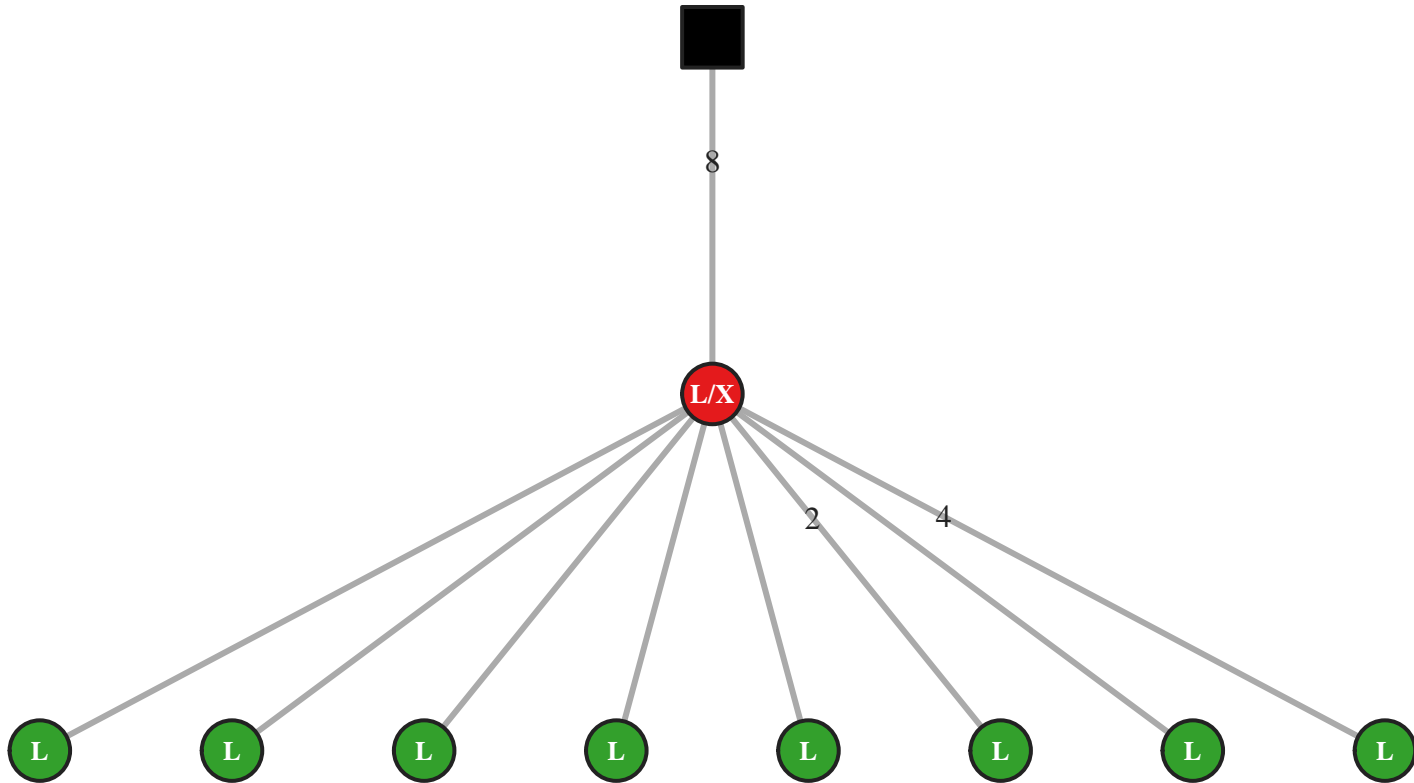
M3 IgG IGHV4-59/J4 54bp (12200)



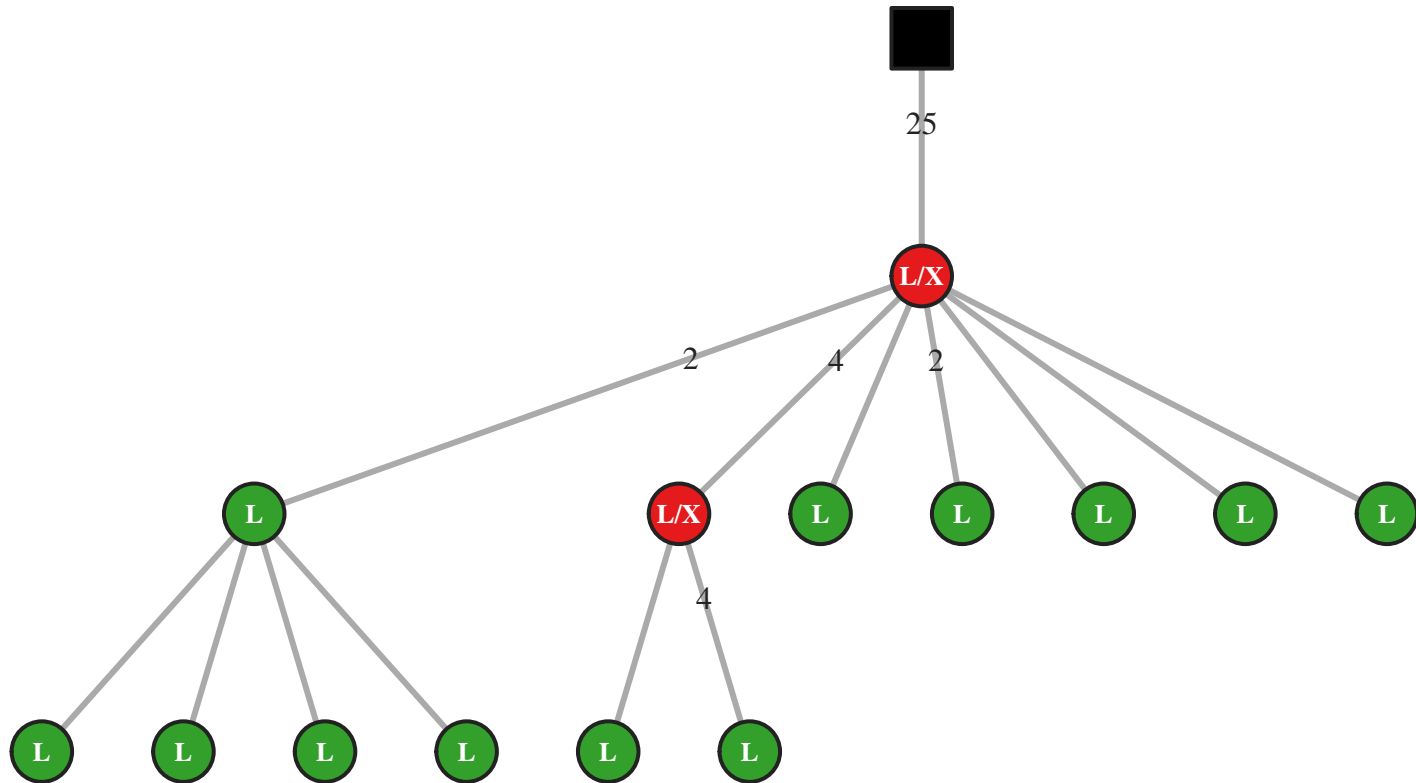
M3 IgG IGHV4-59/J4 57bp (12220)



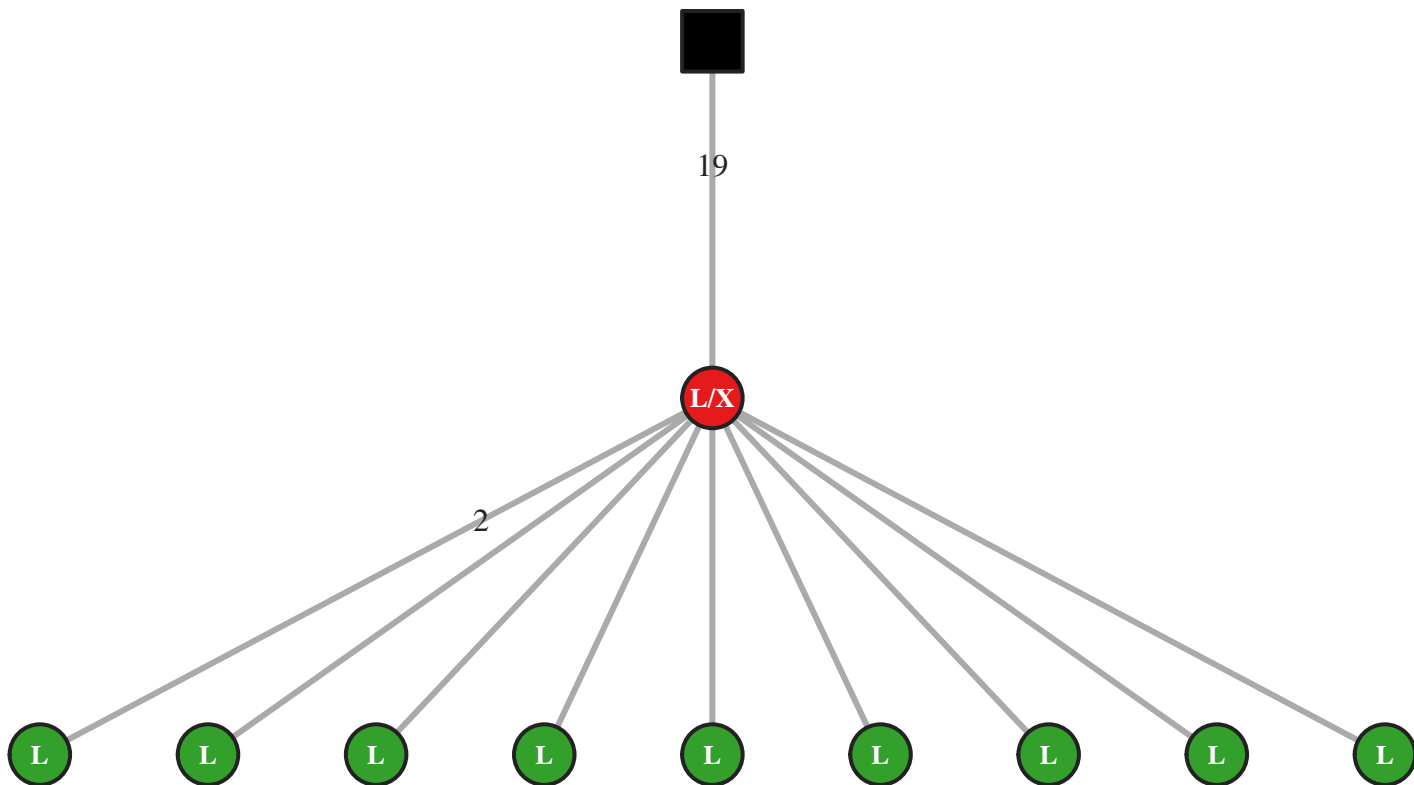
M3 IgG IGHV4-59/J5 54bp (12230)



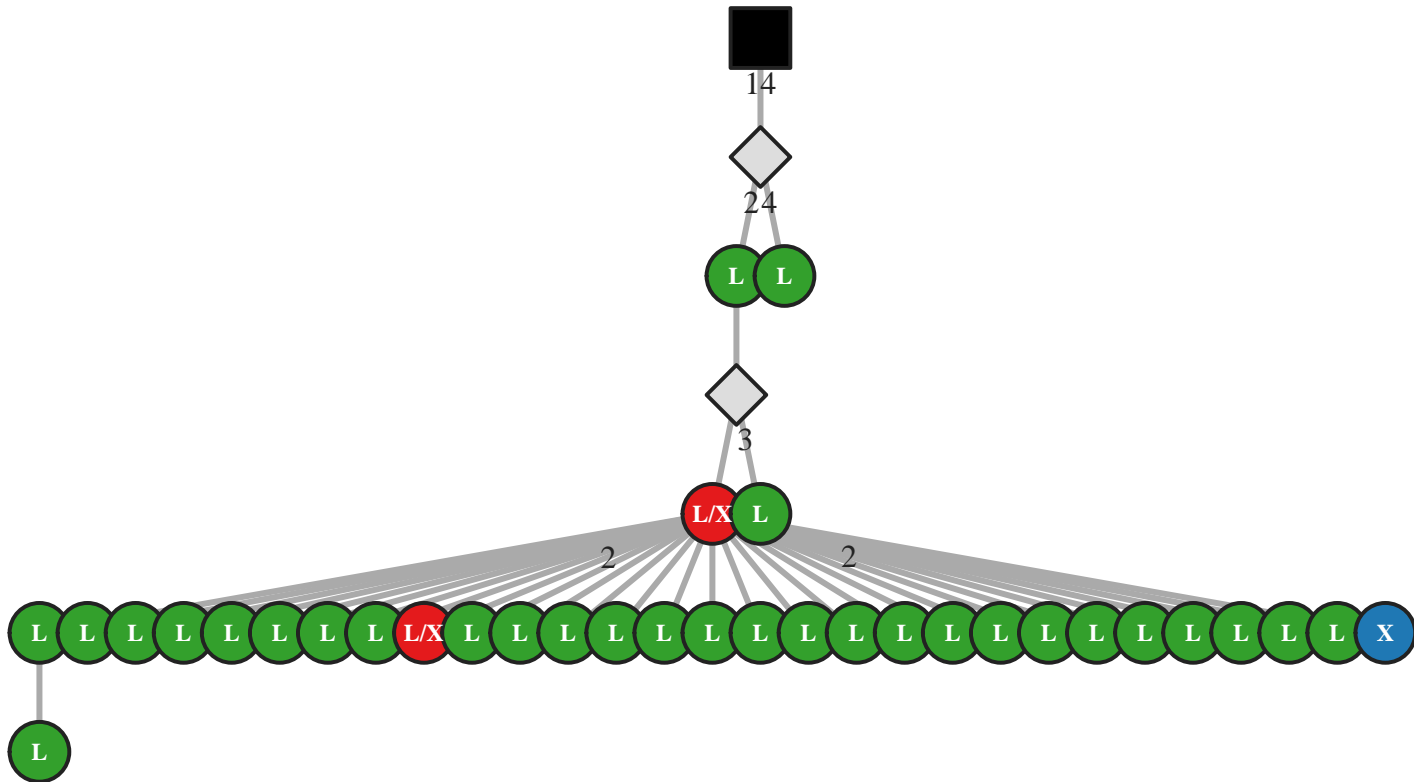
M3 IgG IGHV4-59/J5 57bp (4101)



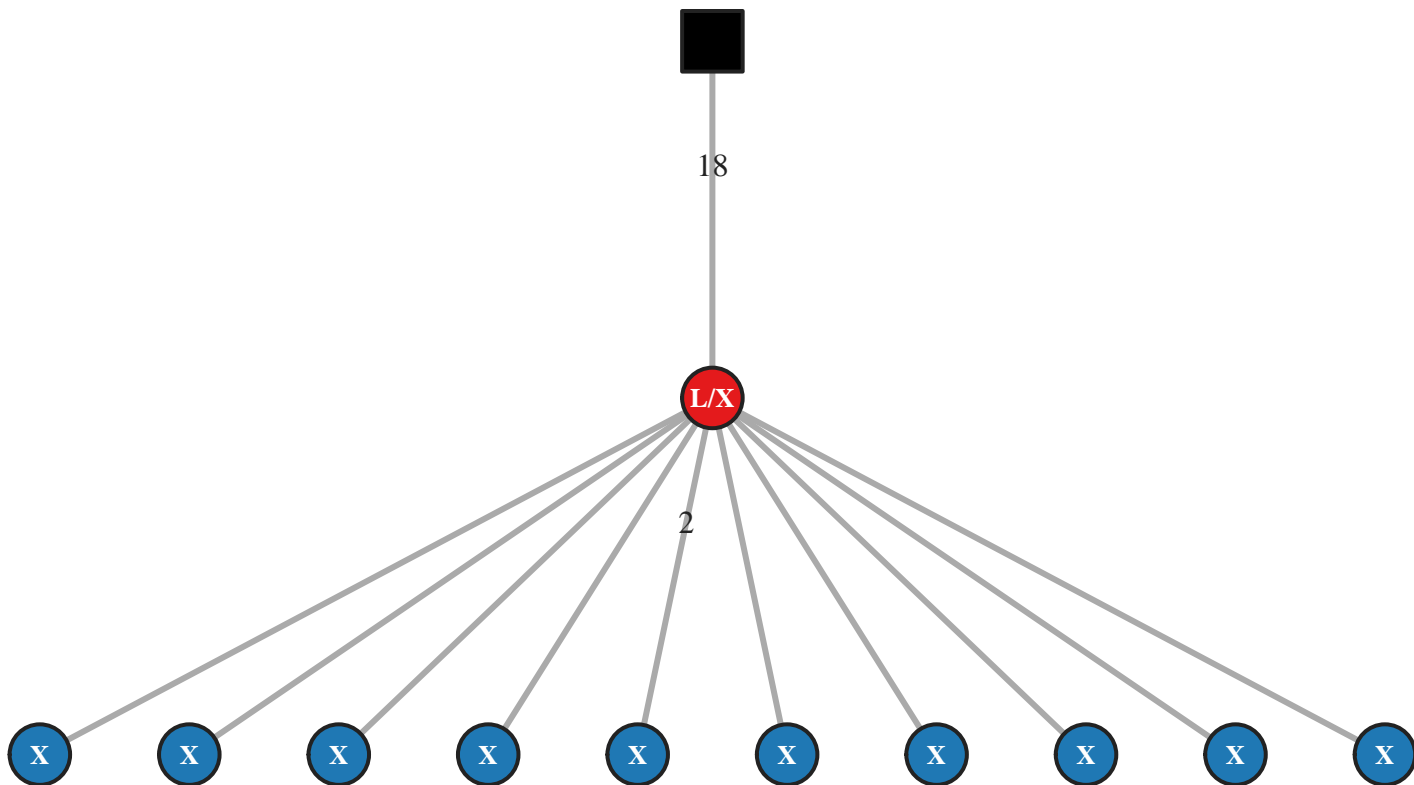
M3 IgG IGHV4-59/J5 57bp (4106)



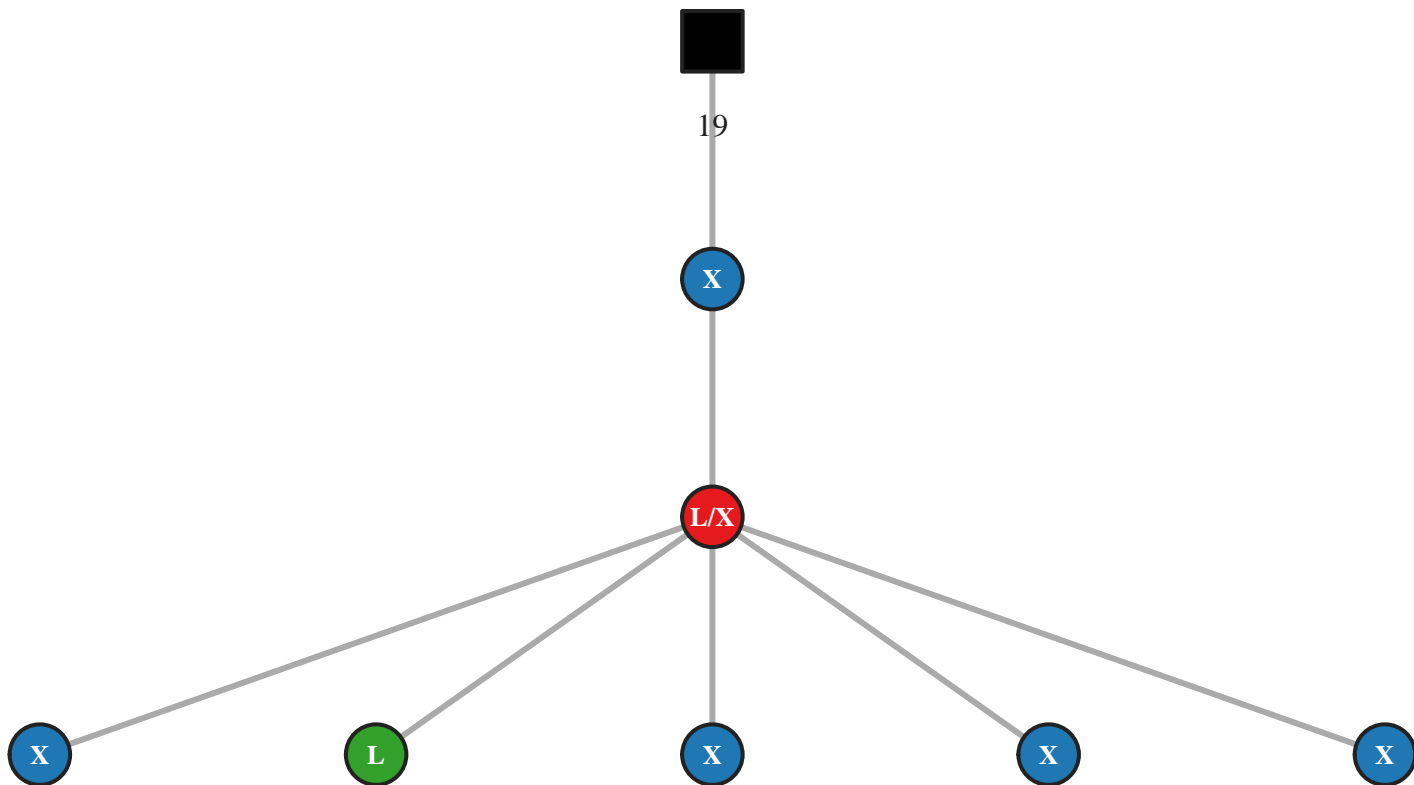
M3 IgG IGHV4-59/J5 75bp (7890)



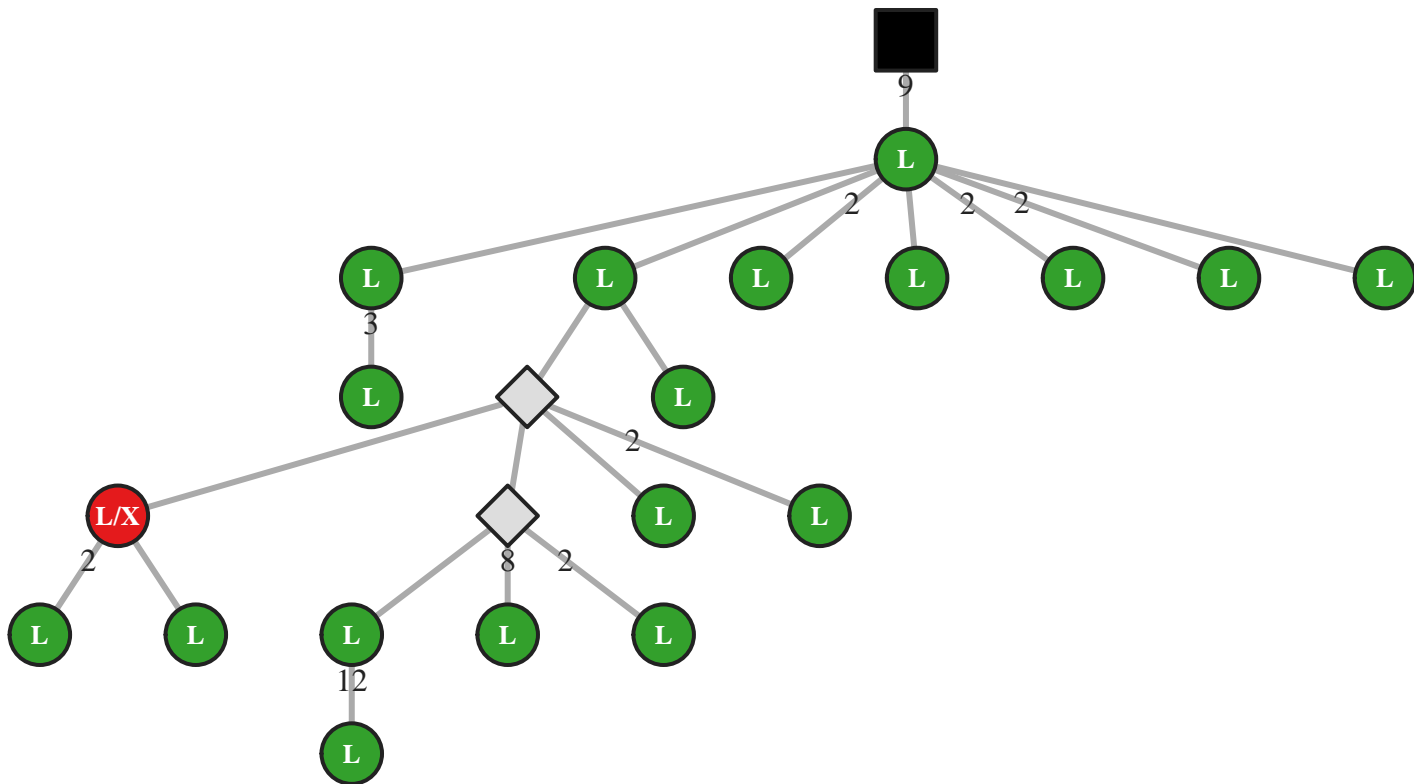
M3 IgG IGHV4-59/J6 75bp (4117)



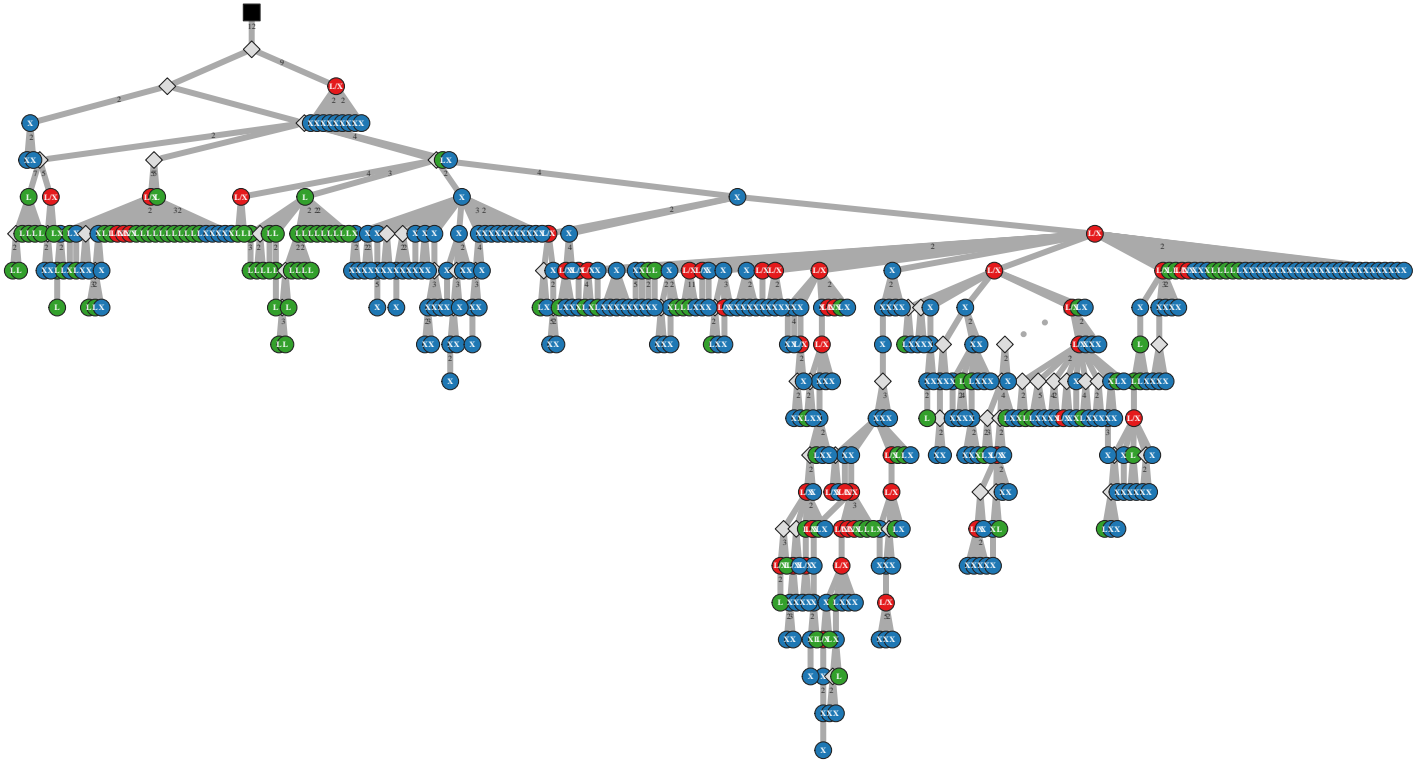
M3 IgG IGHV4-59/J6 75bp (4118)



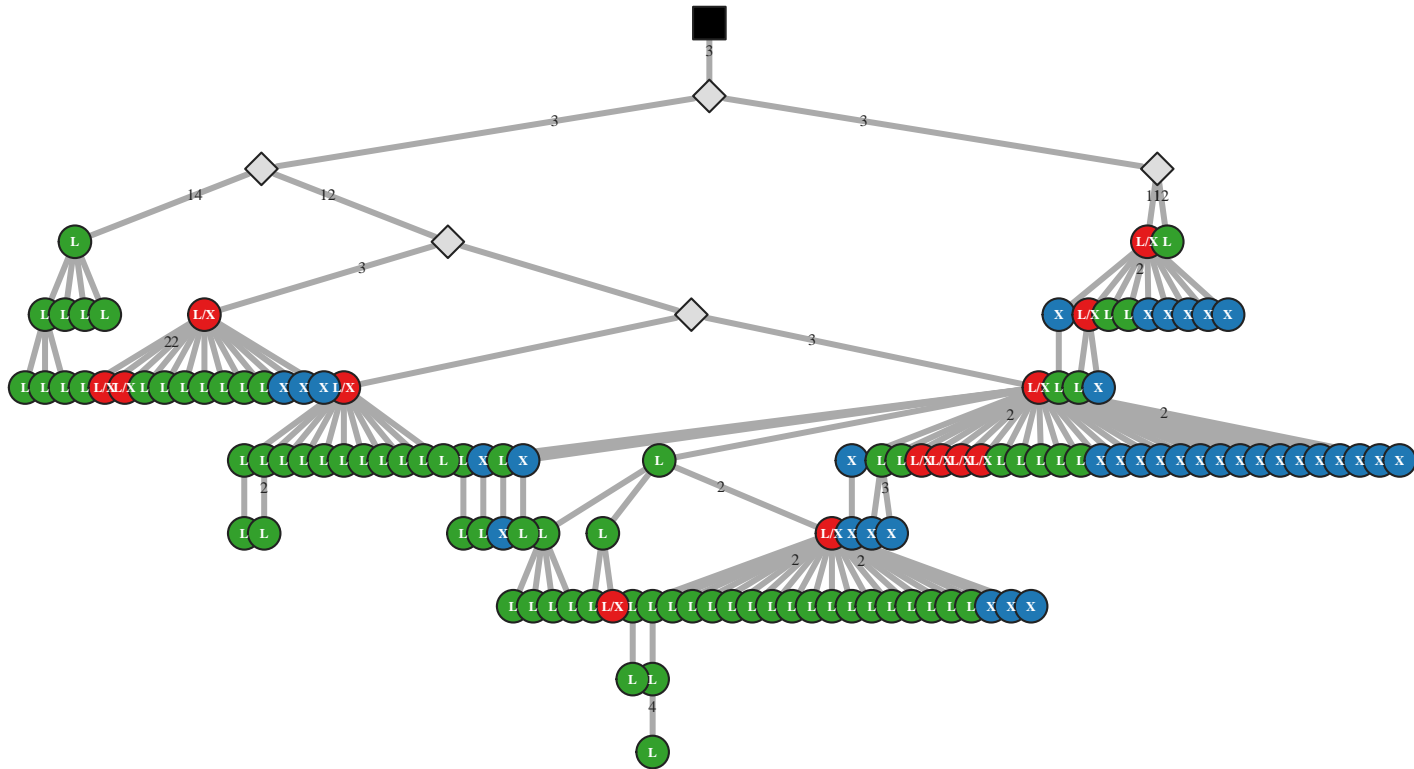
M3 IgG IGHV4-61/J3 51bp (15259)



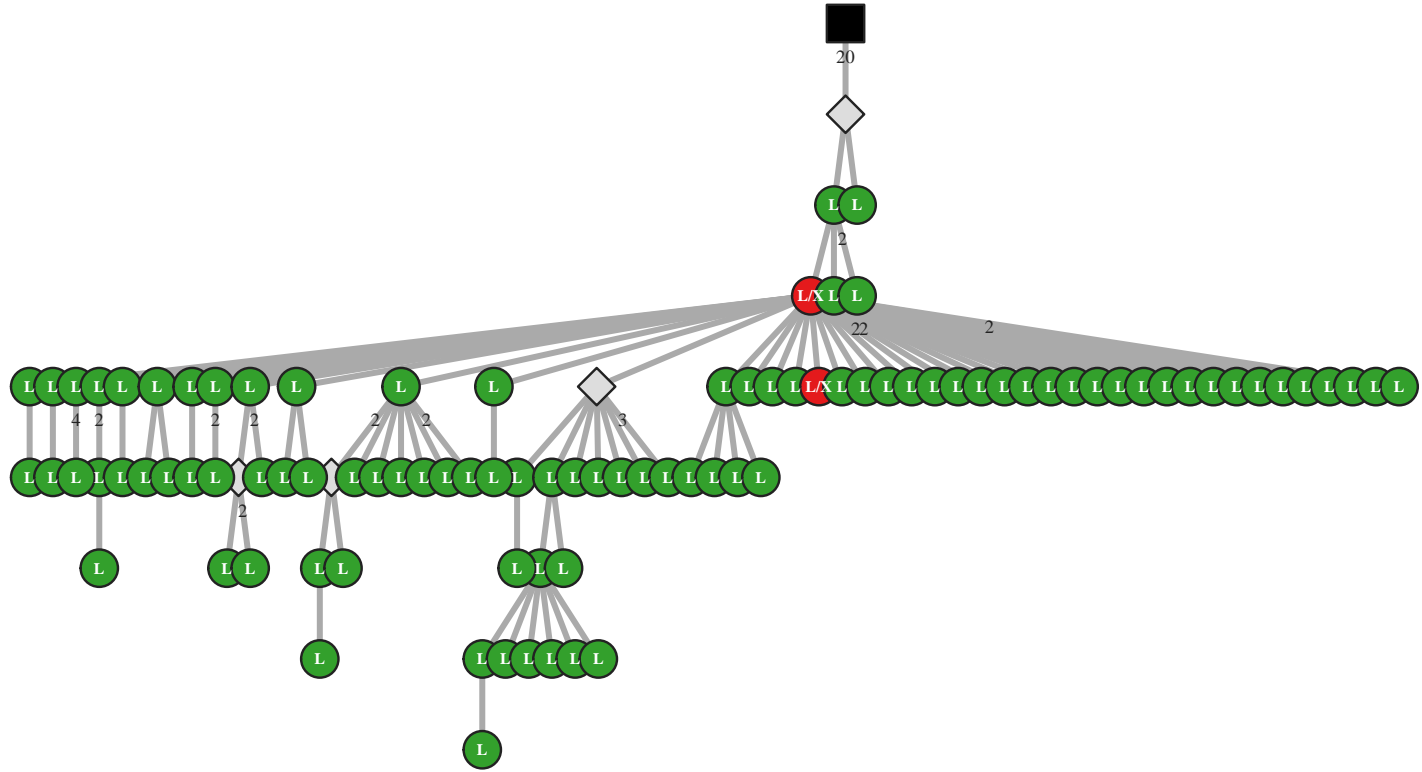
M3 IgG IGHV4-61/J3 60bp (12253)



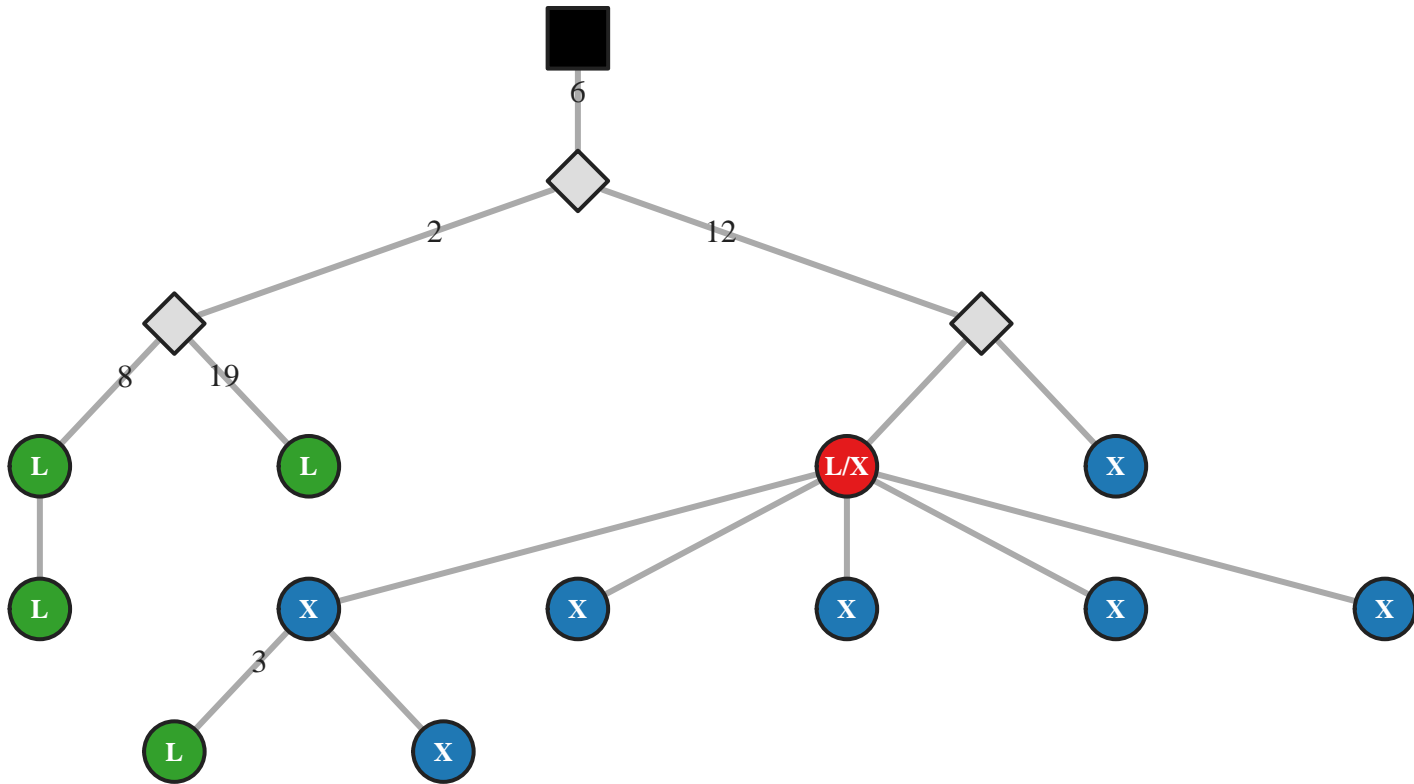
M3 IgG IGHV4-61/J4 33bp (4125)



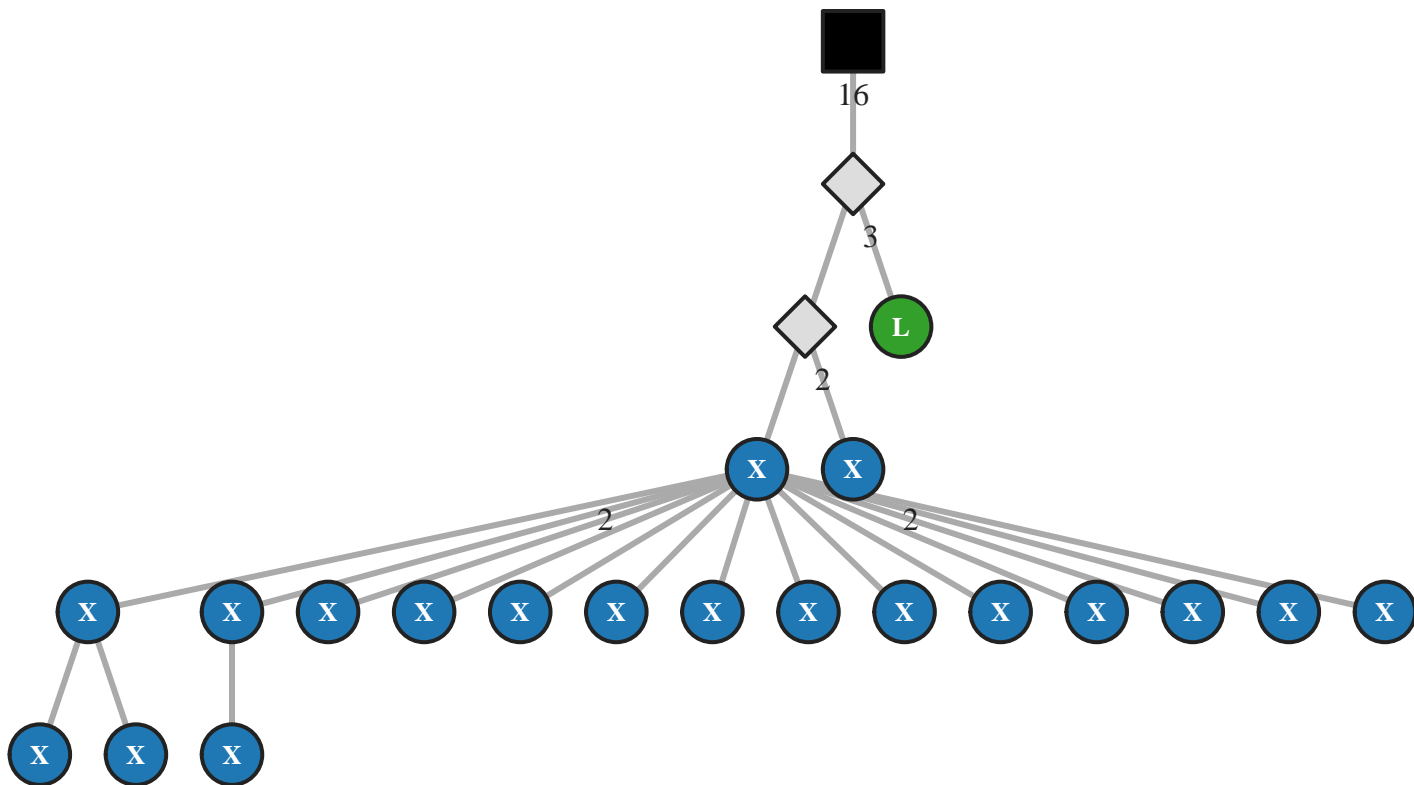
M3 IgG IGHV4-61/J4 33bp (4126)



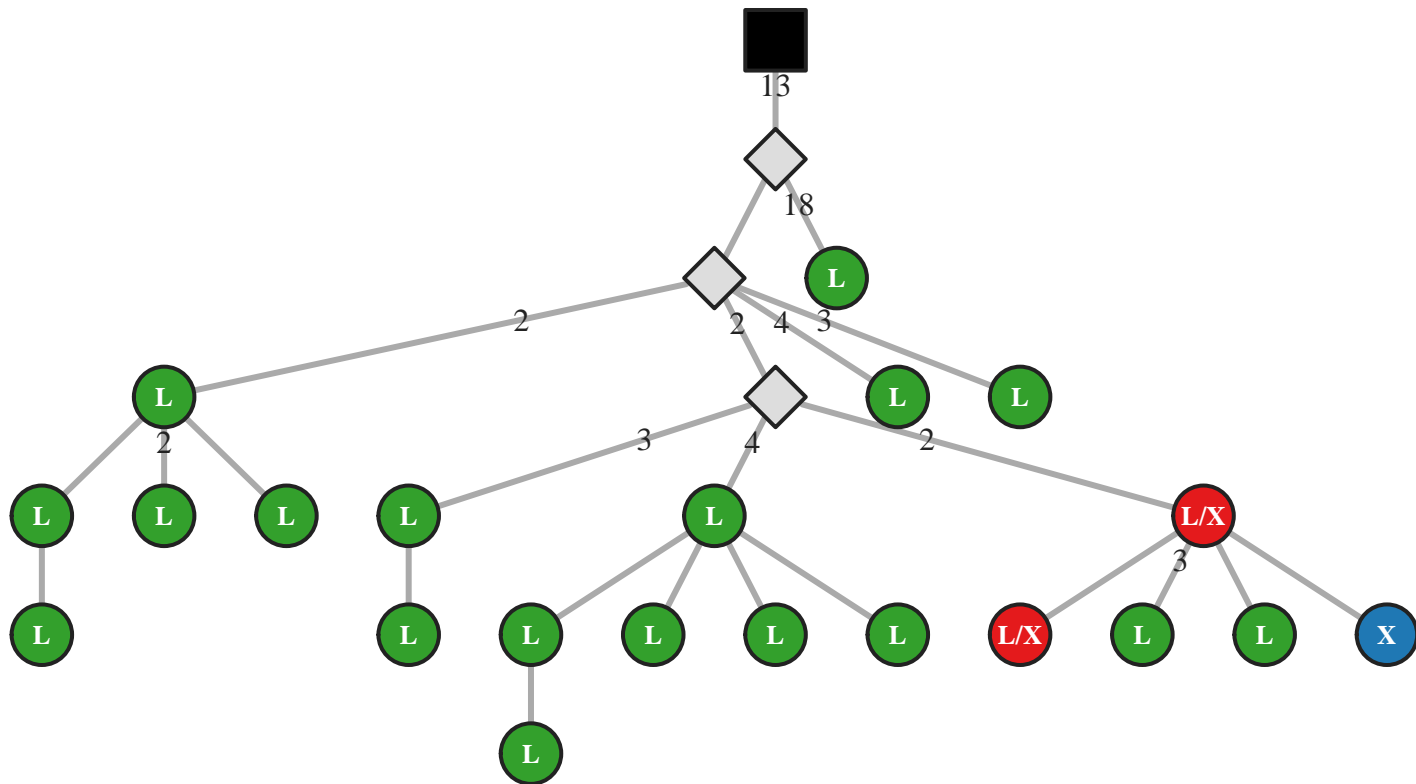
M3 IgG IGHV4-61/J4 33bp (4127)



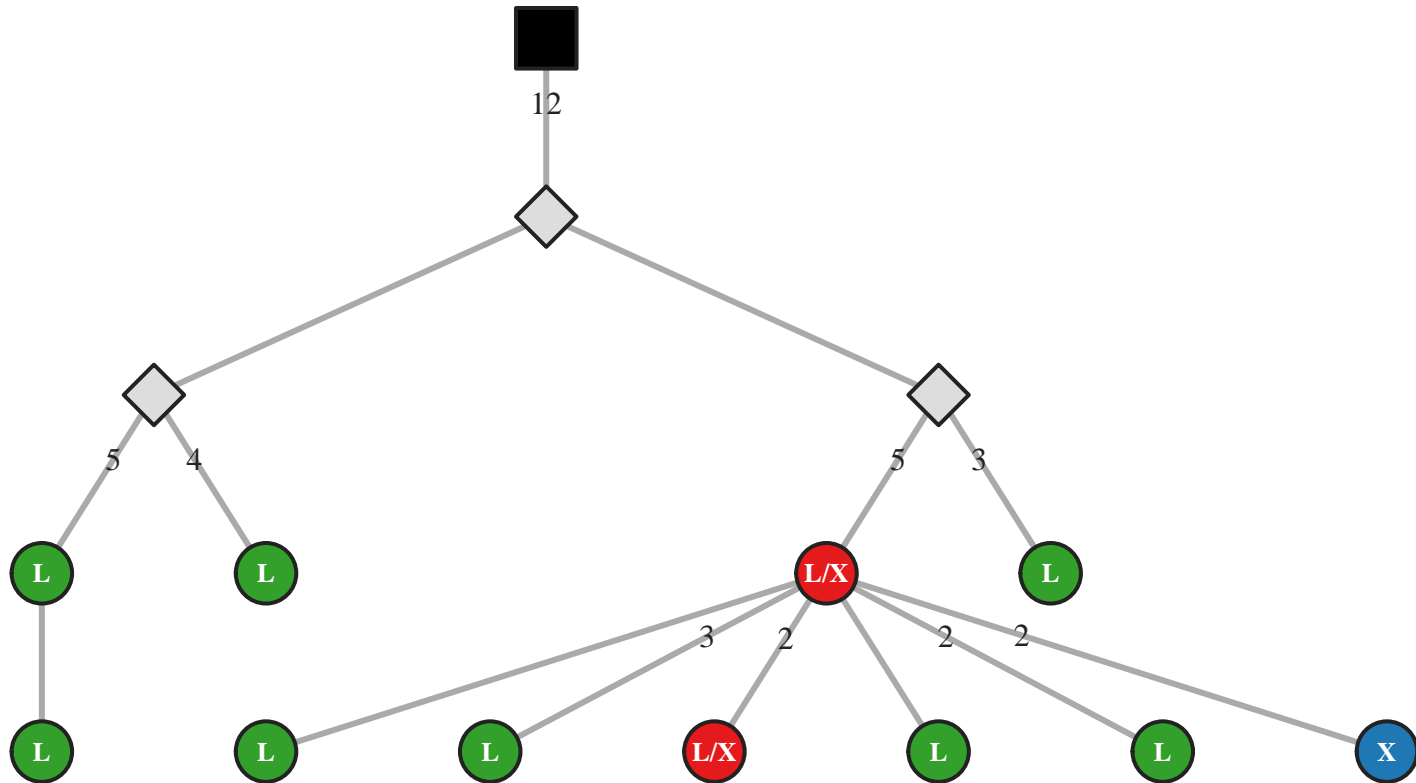
M3 IgG IGHV4-61/J4 39bp (15227)



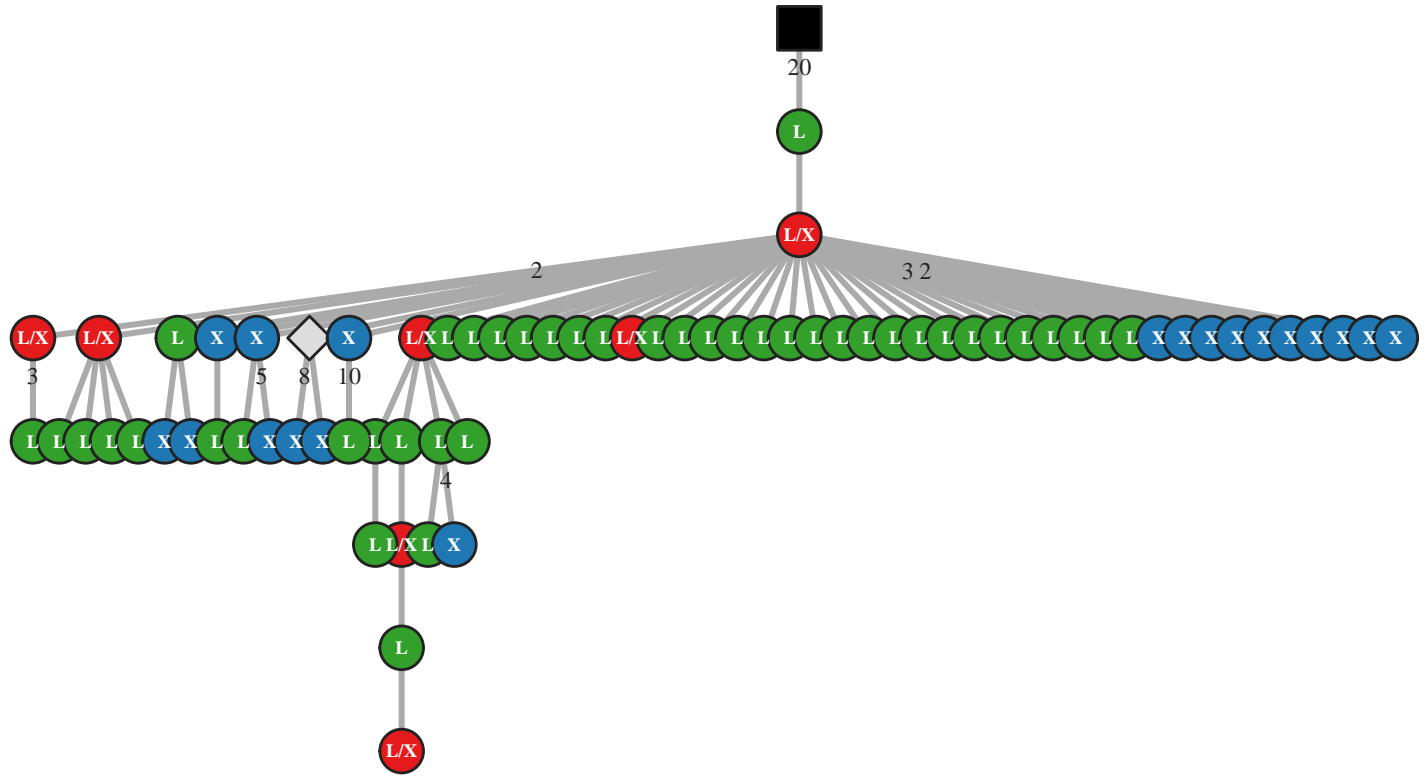
M3 IgG IGHV4-61/J4 42bp (12165)



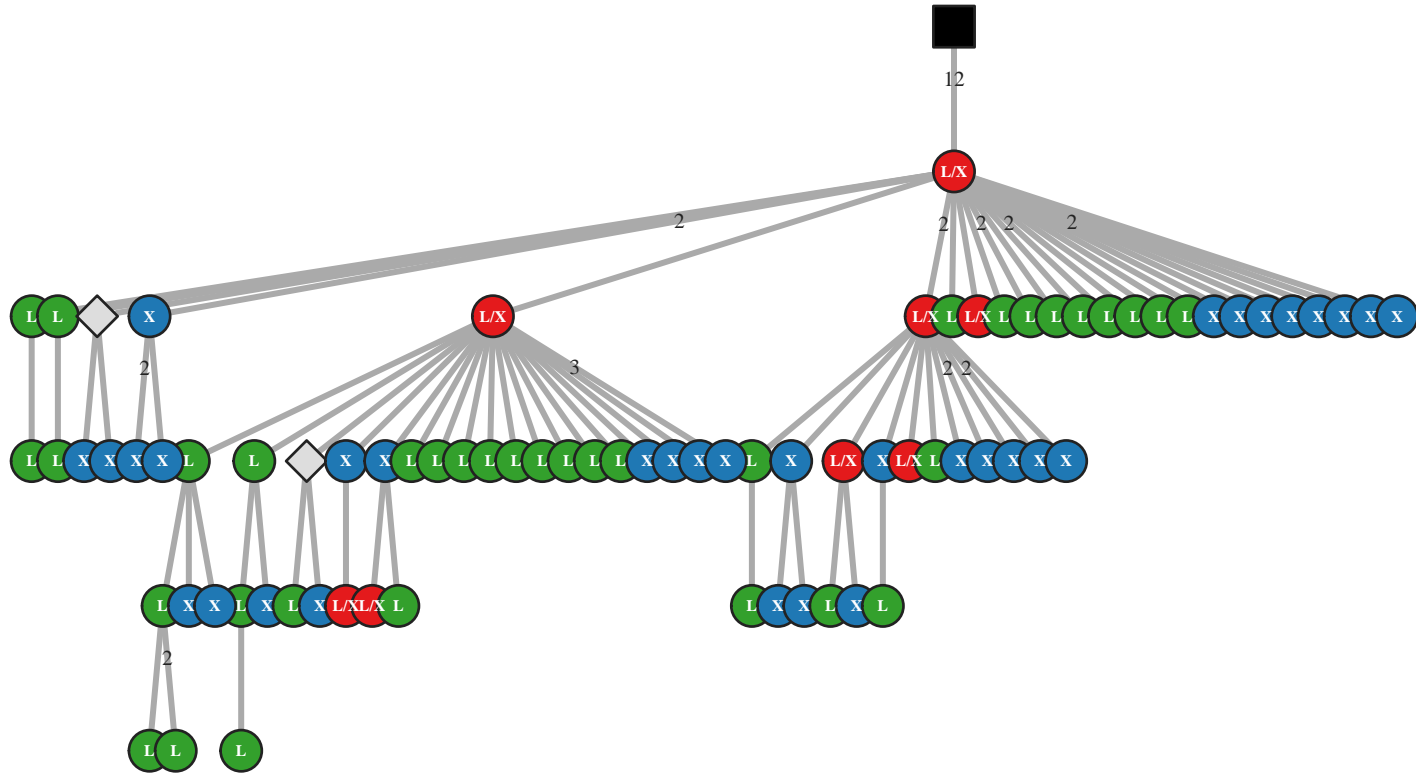
M3 IgG IGHV4-61/J4 51bp (7904)



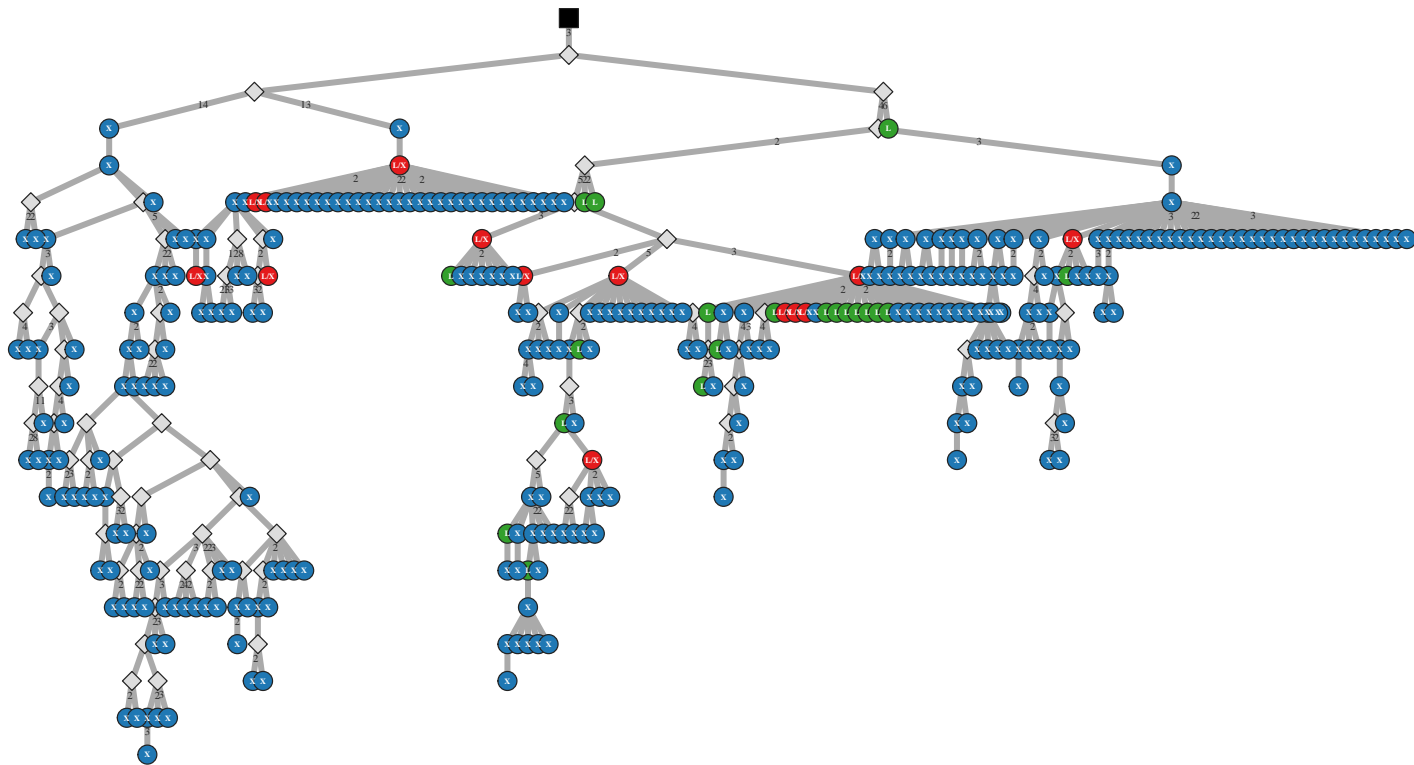
M3 IgG IGHV4-61/J4 51bp (7908)



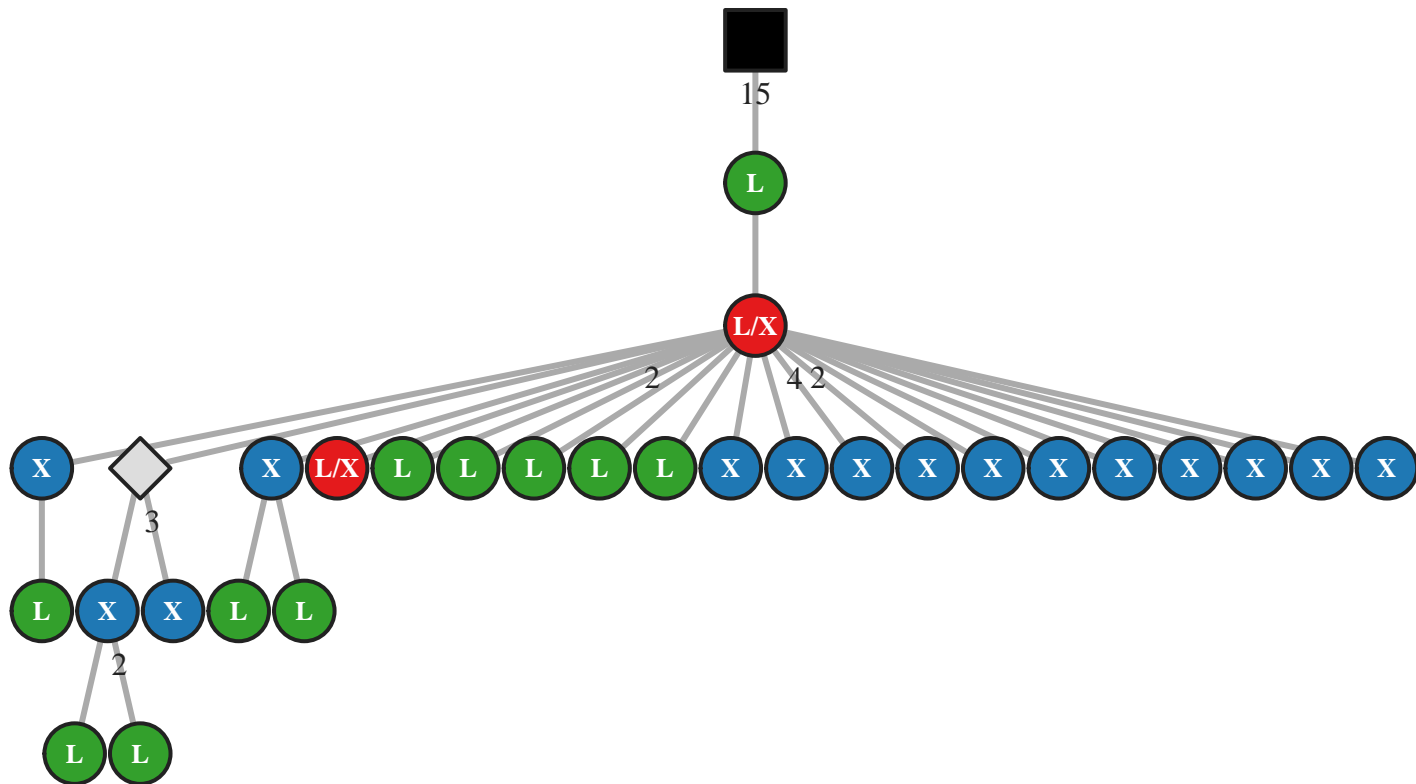
M3 IgG IGHV4-61/J4 54bp (12199)



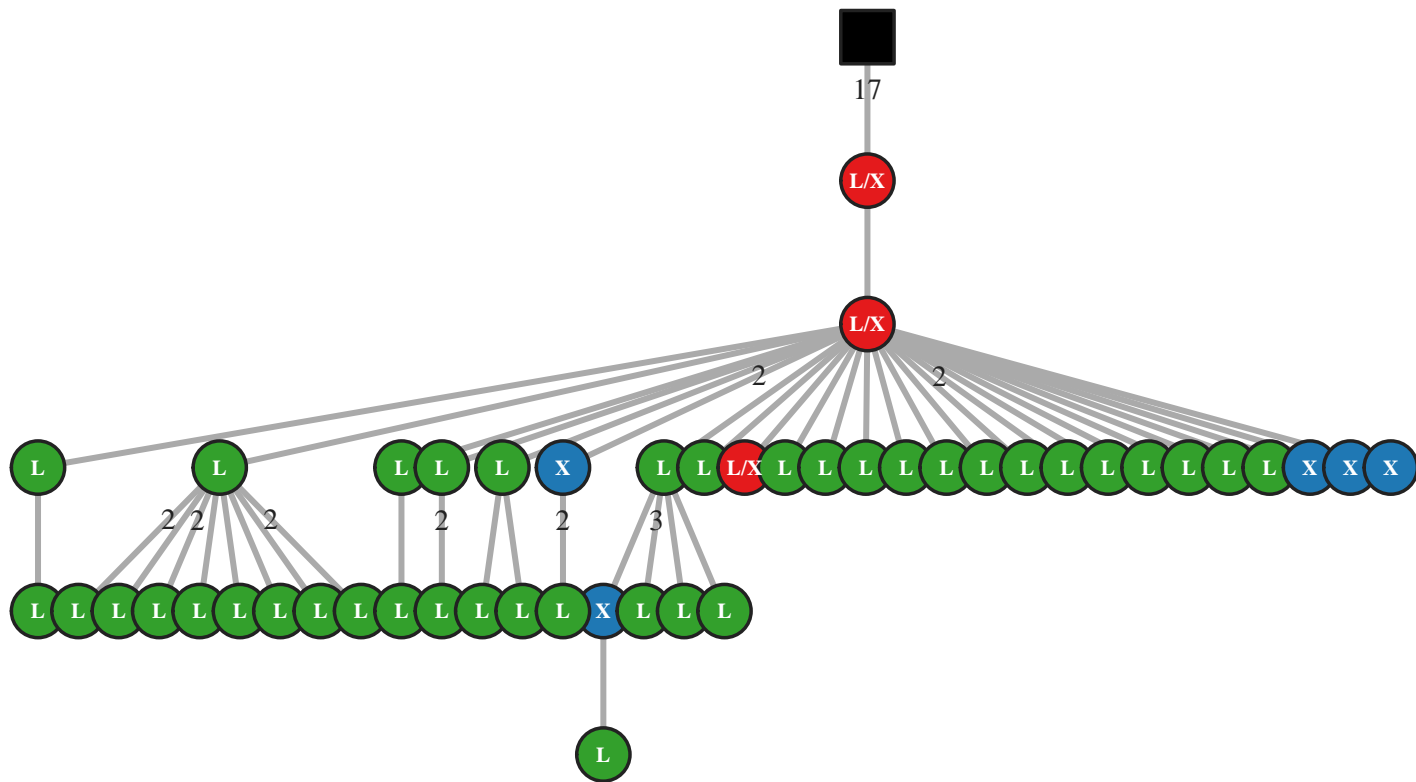
M3 IgG IGHV4-61/J4 57bp (4138)



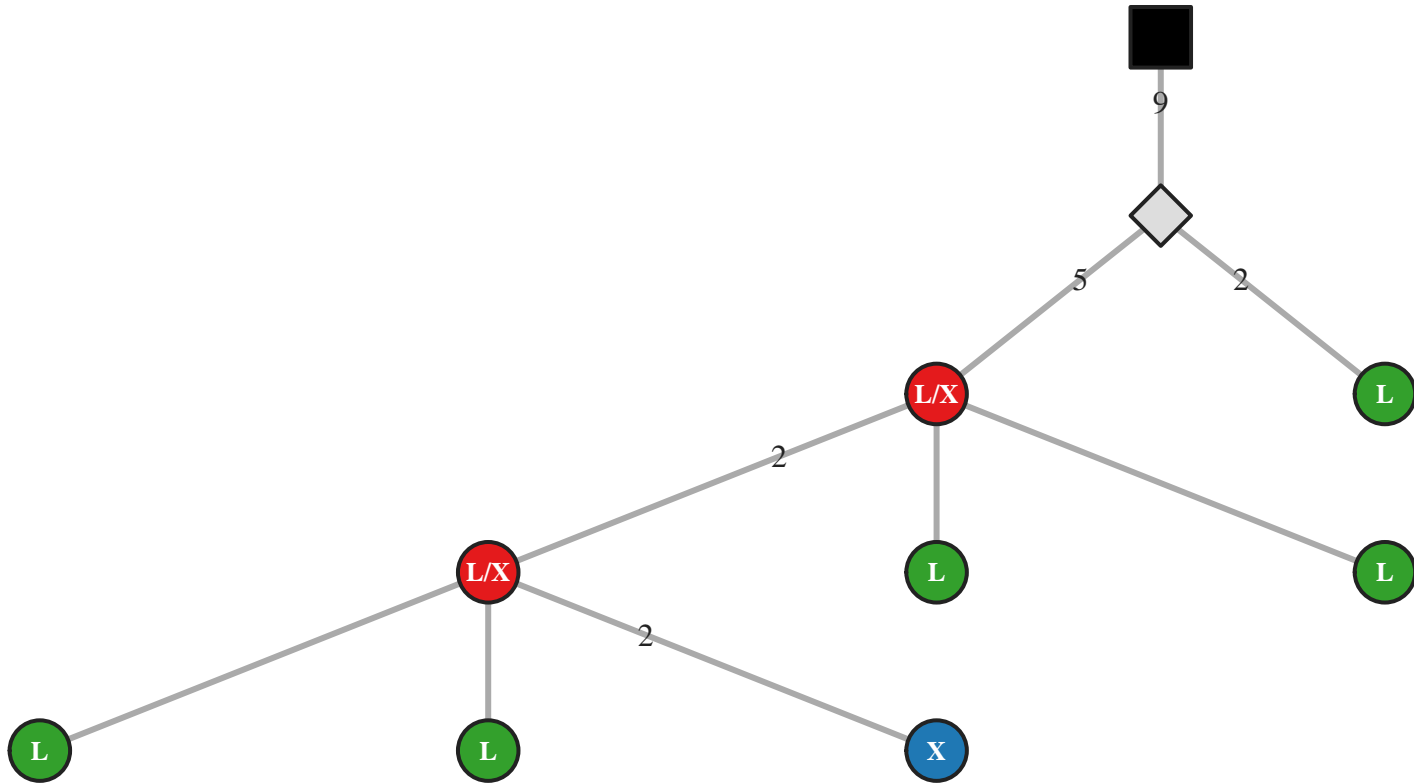
M3 IgG IGHV4-61/J4 63bp (7914)



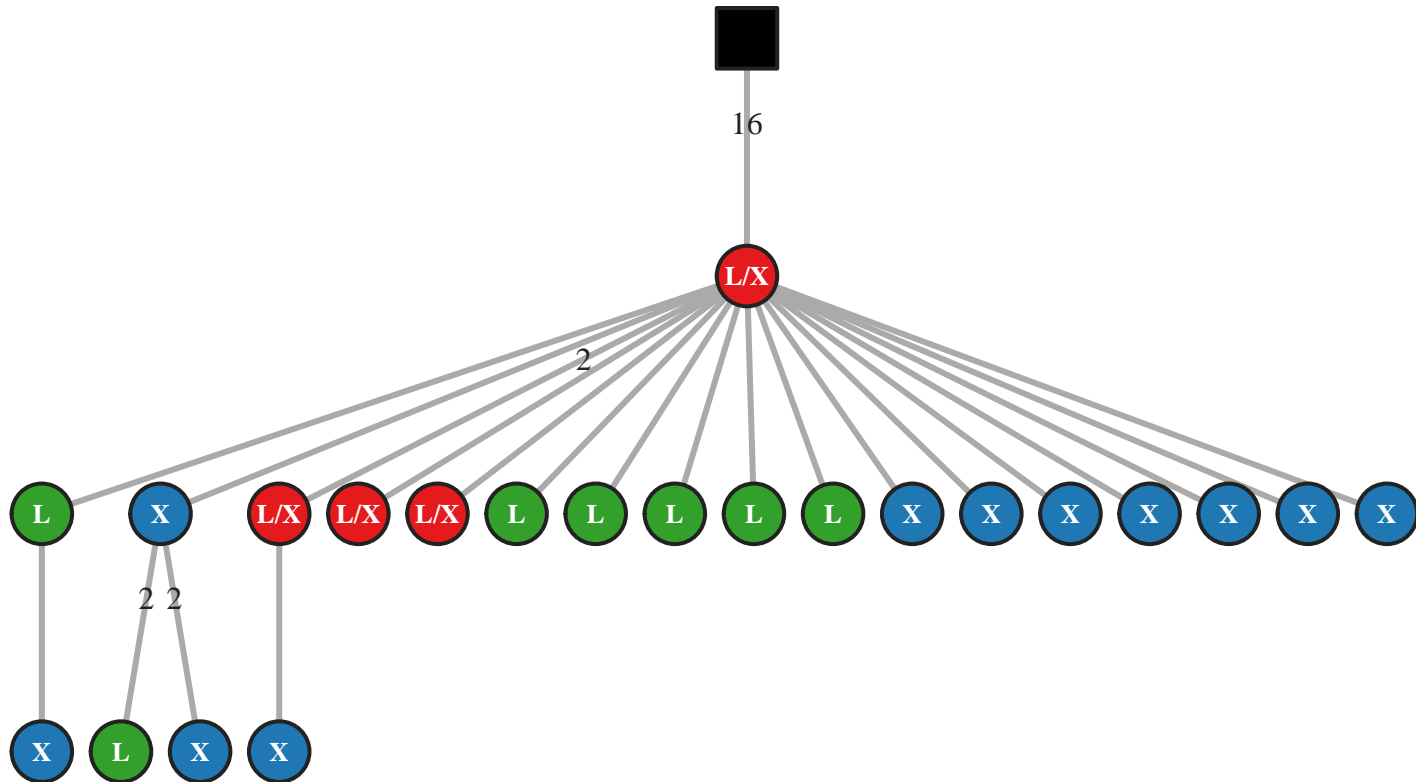
M3 IgG IGHV4-61/J4 63bp (7916)



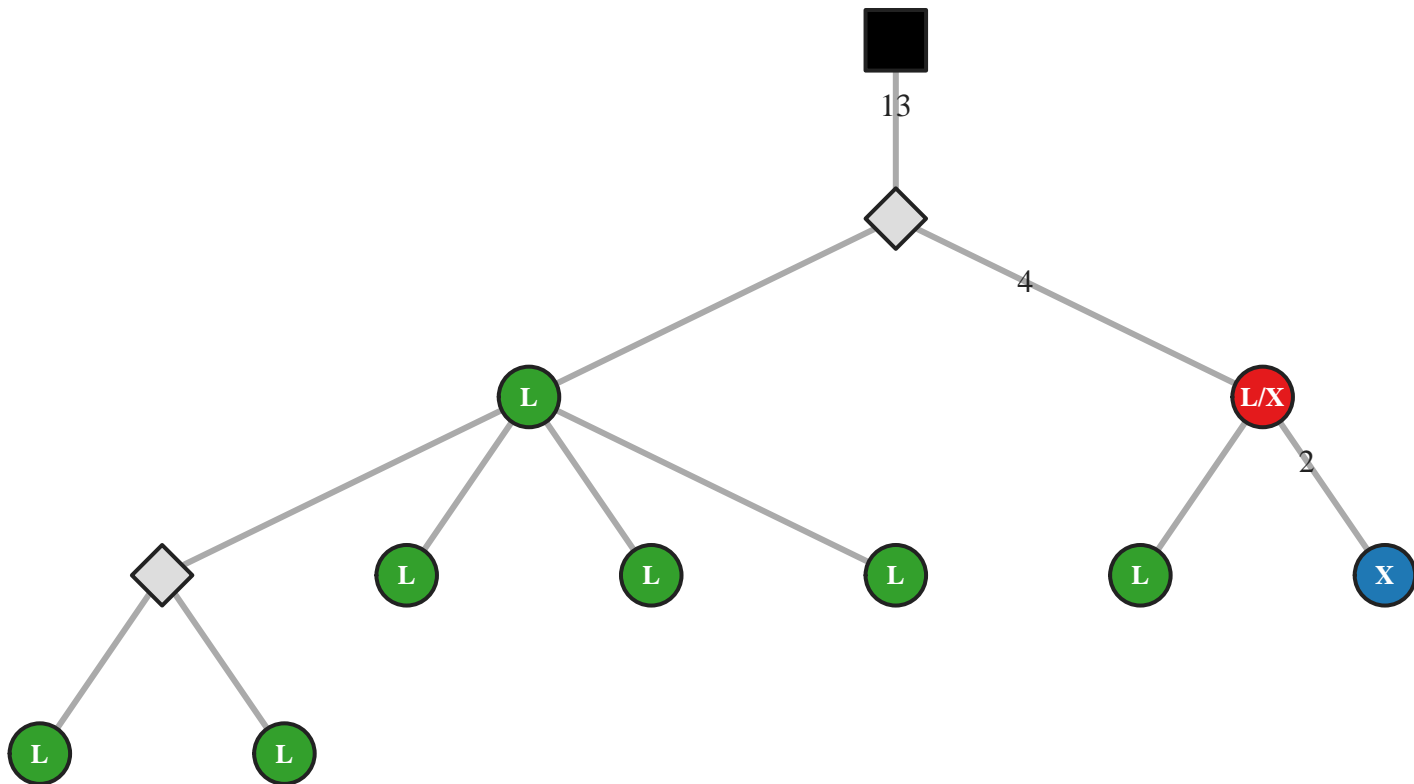
M3 IgG IGHV4-61/J4 63bp (7917)



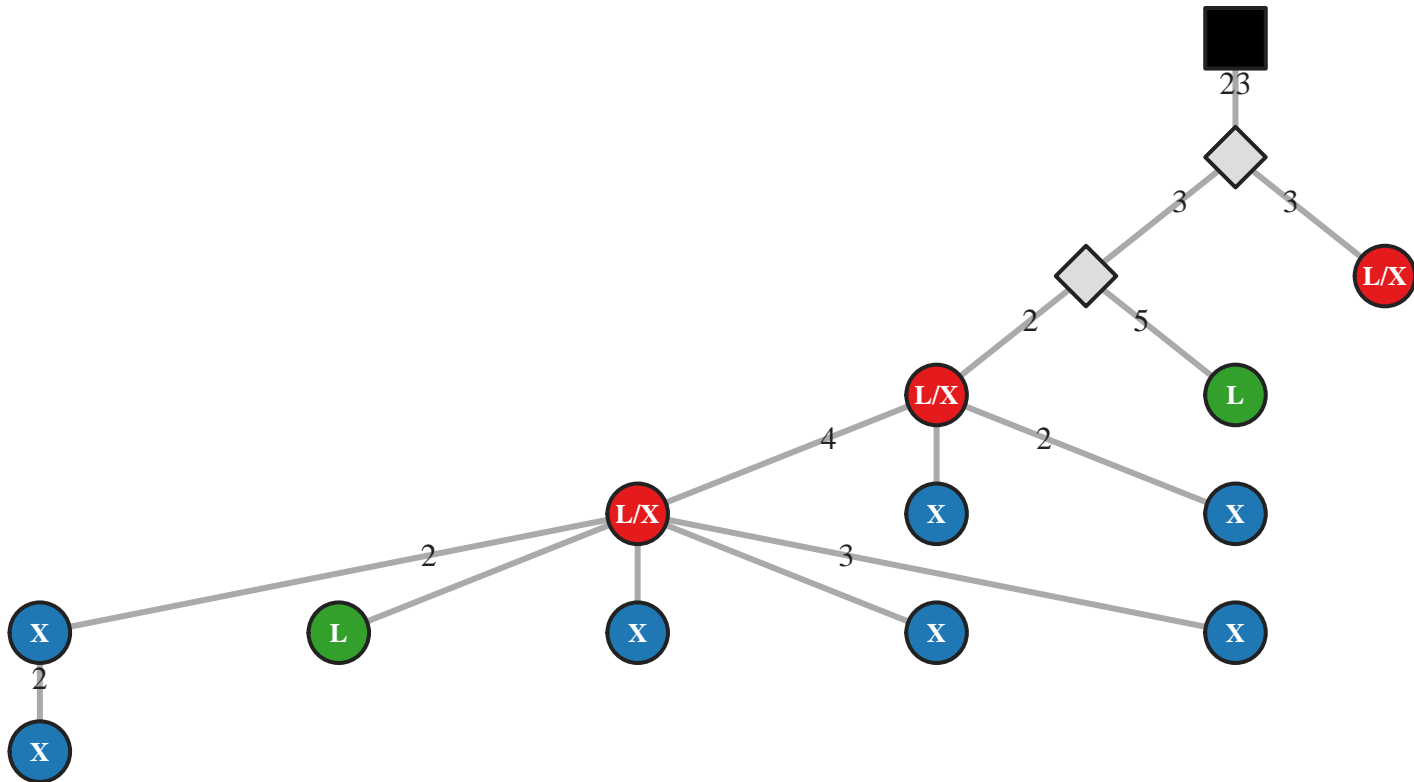
M3 IgG IGHV4-61/J4 63bp (7920)



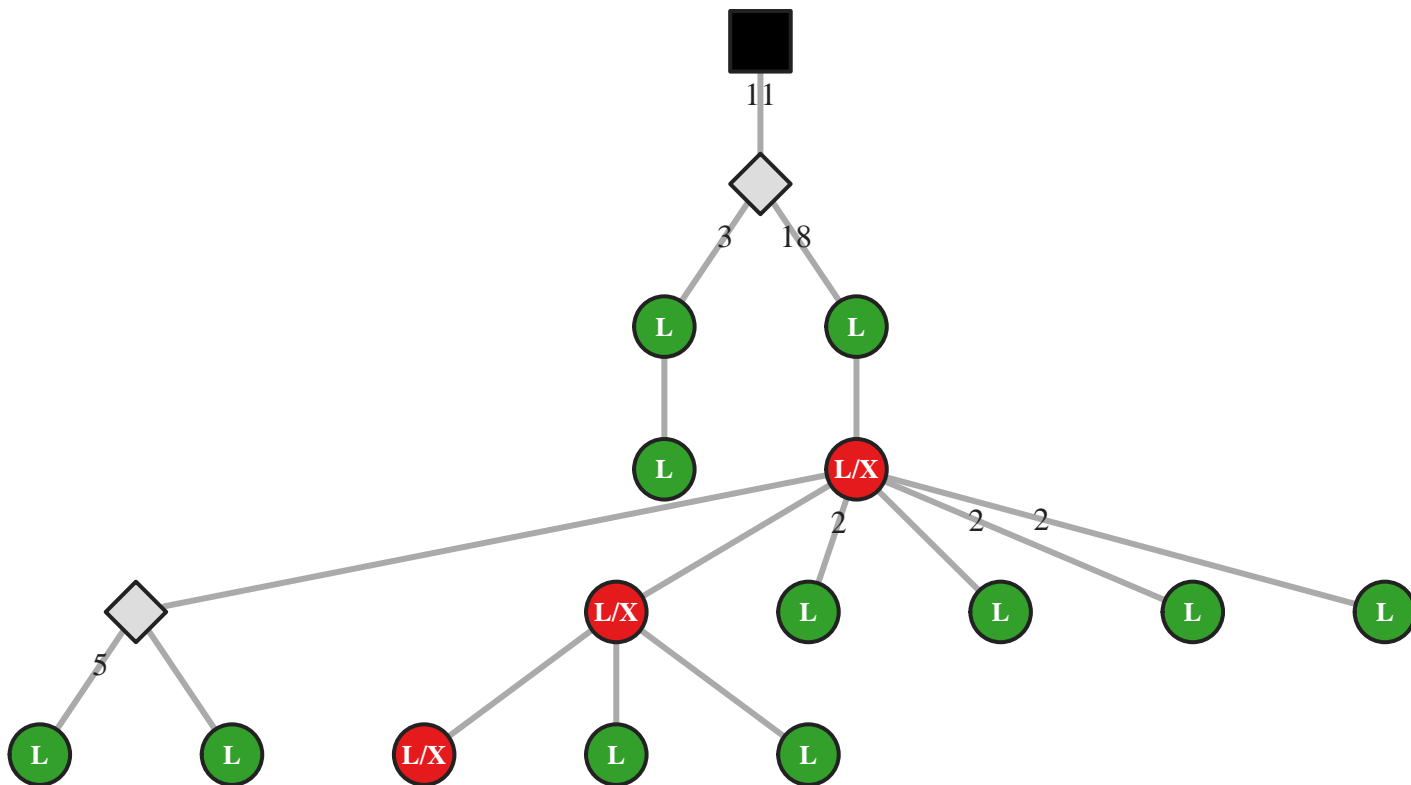
M3 IgG IGHV4-61/J5 45bp (12262)



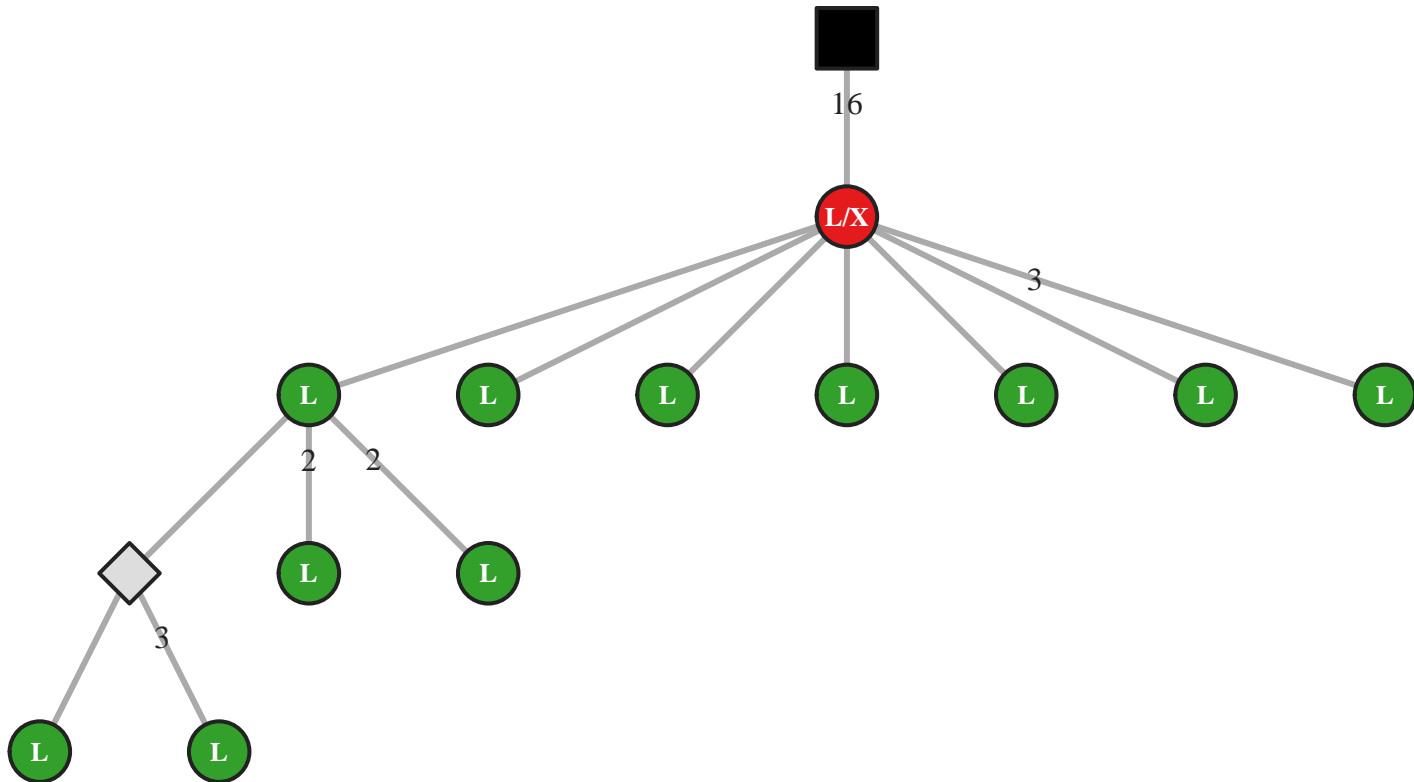
M3 IgG IGHV4-61/J5 51bp (12269)



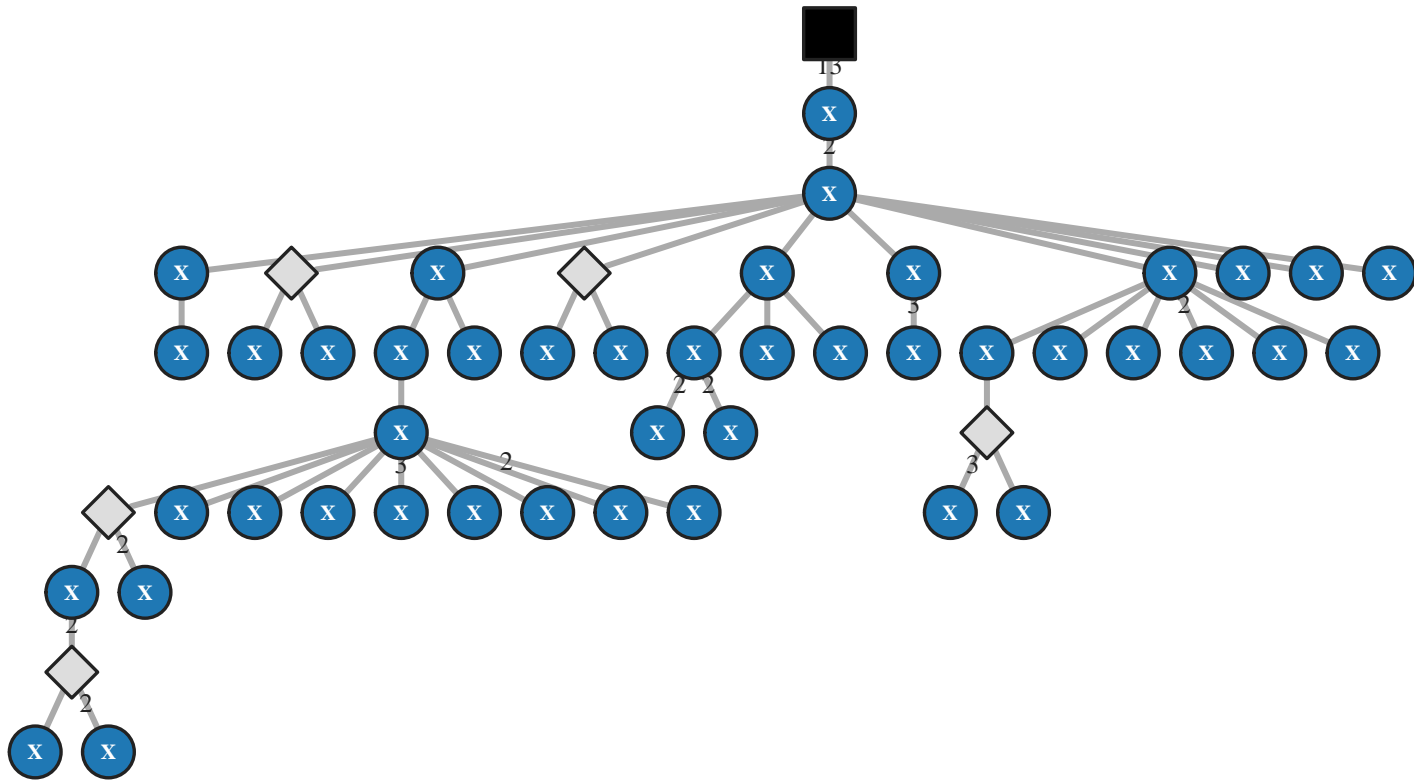
M3 IgG IGHV4-61/J5 57bp (7930)



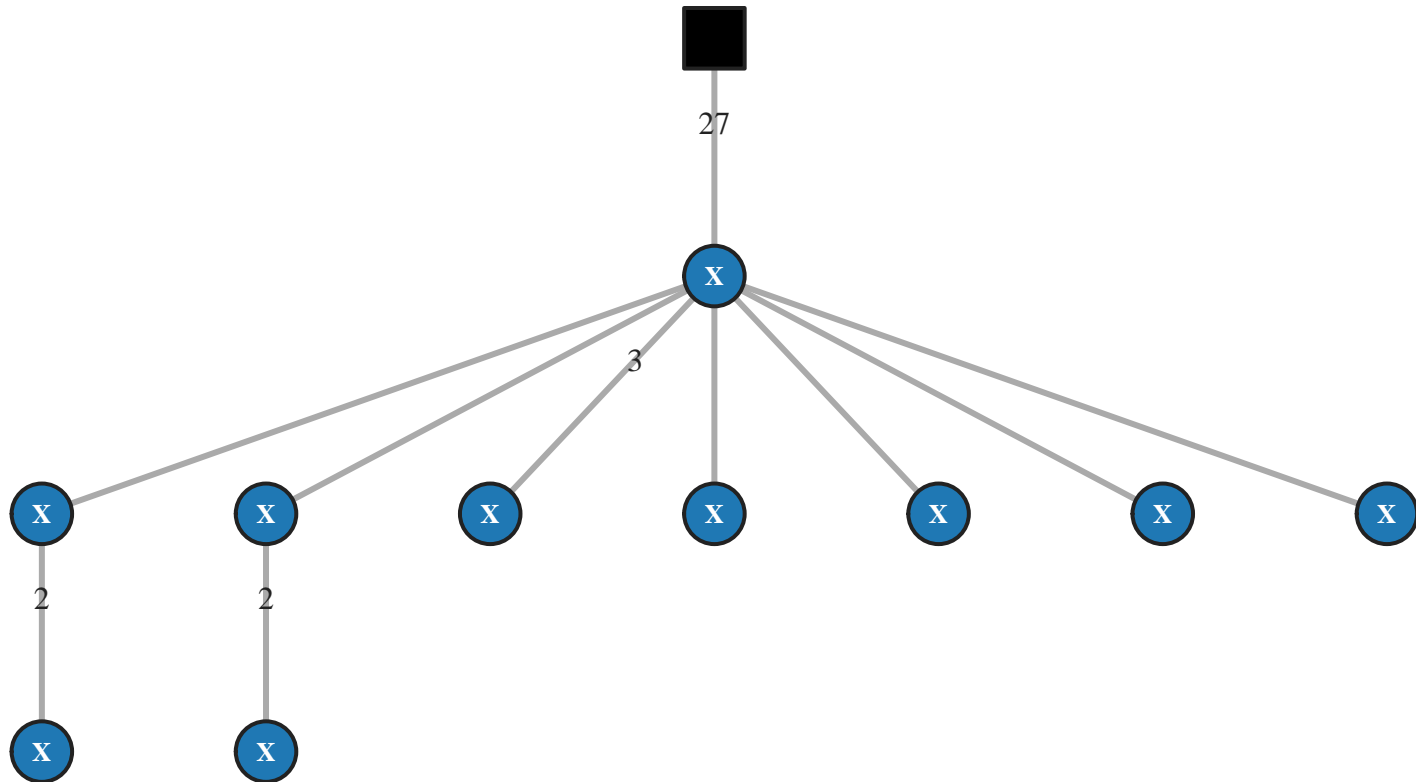
M3 IgG IGHV4-61/J5 57bp (7934)



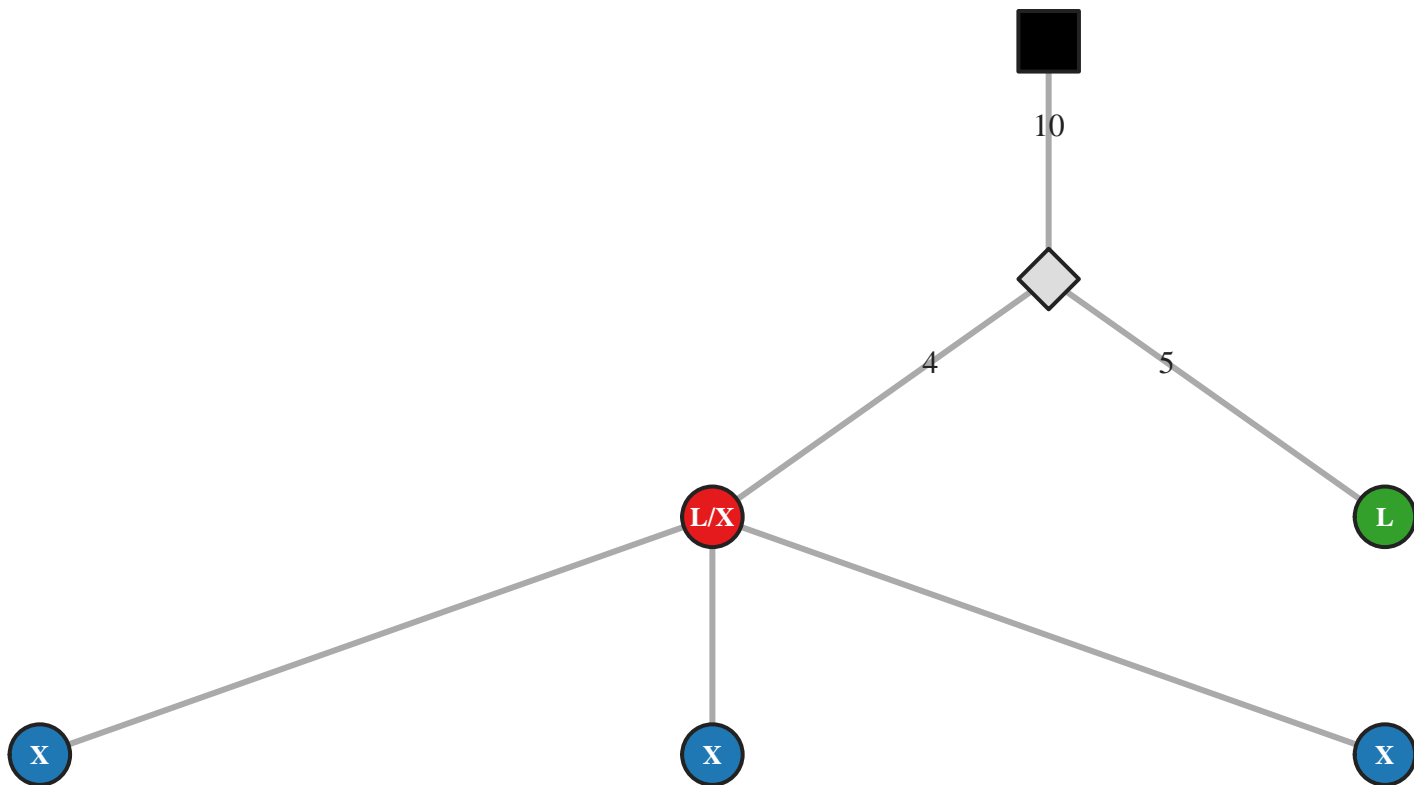
M3 IgG IGHV4-61/J5 78bp (4145)



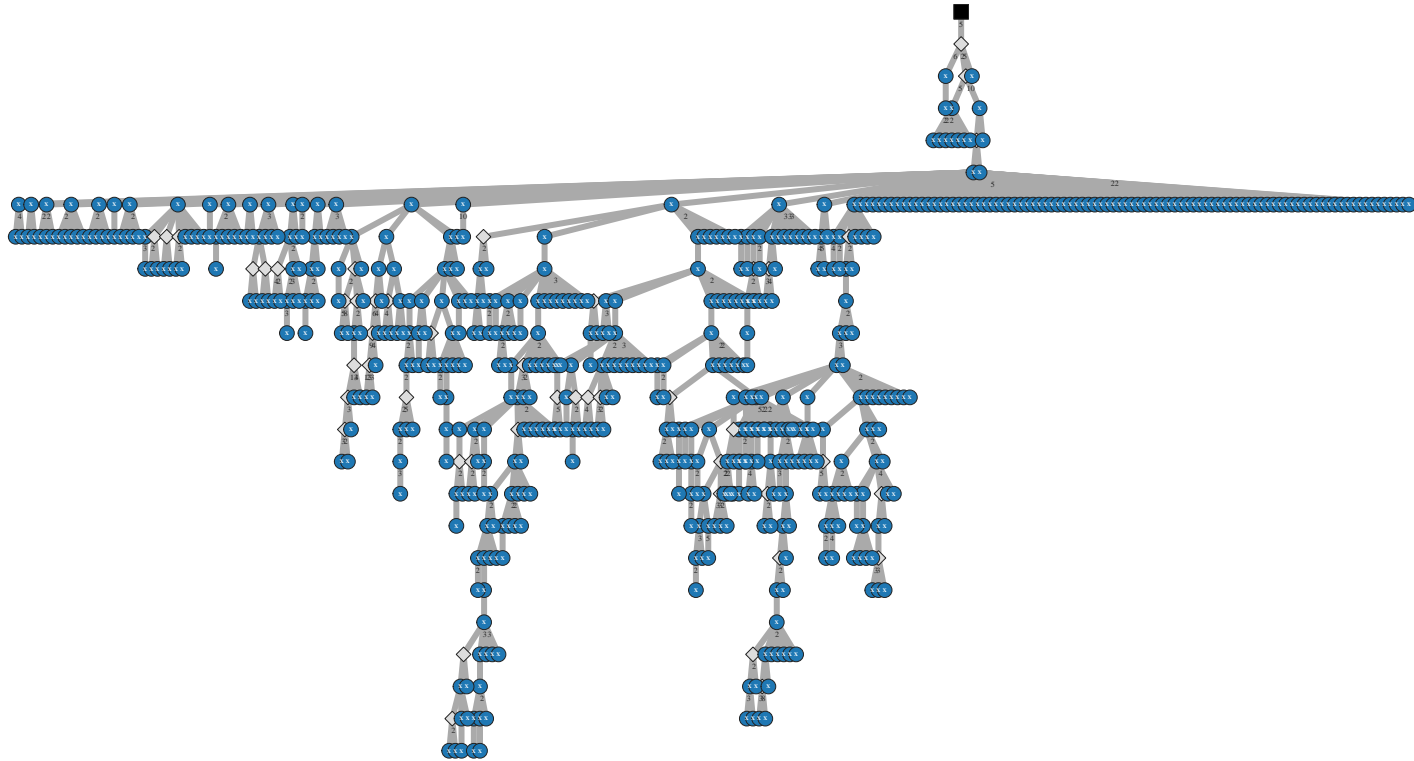
M3 IgG IGHV4-61/J6 51bp (7940)



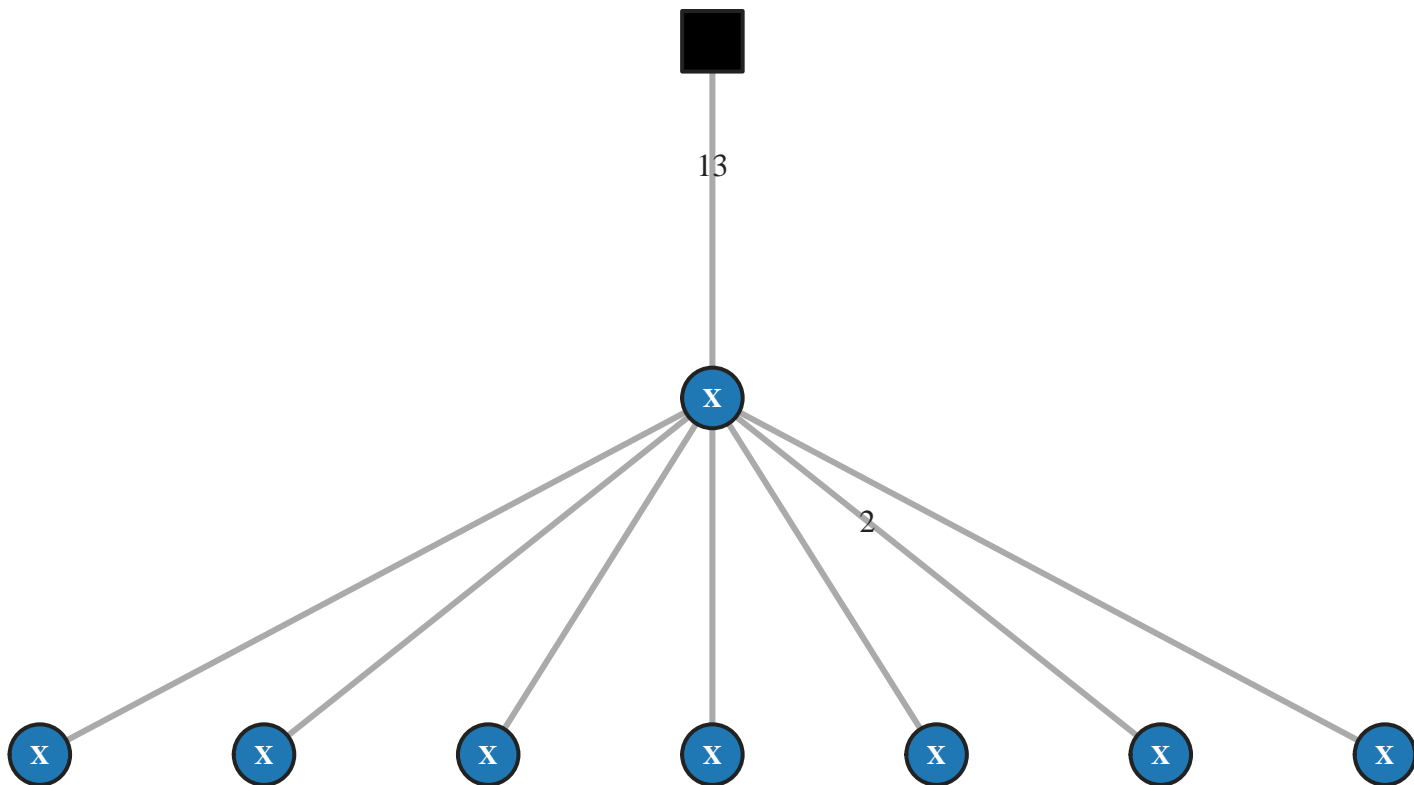
M3 IgG IGHV4-61/J6 51bp (7941)



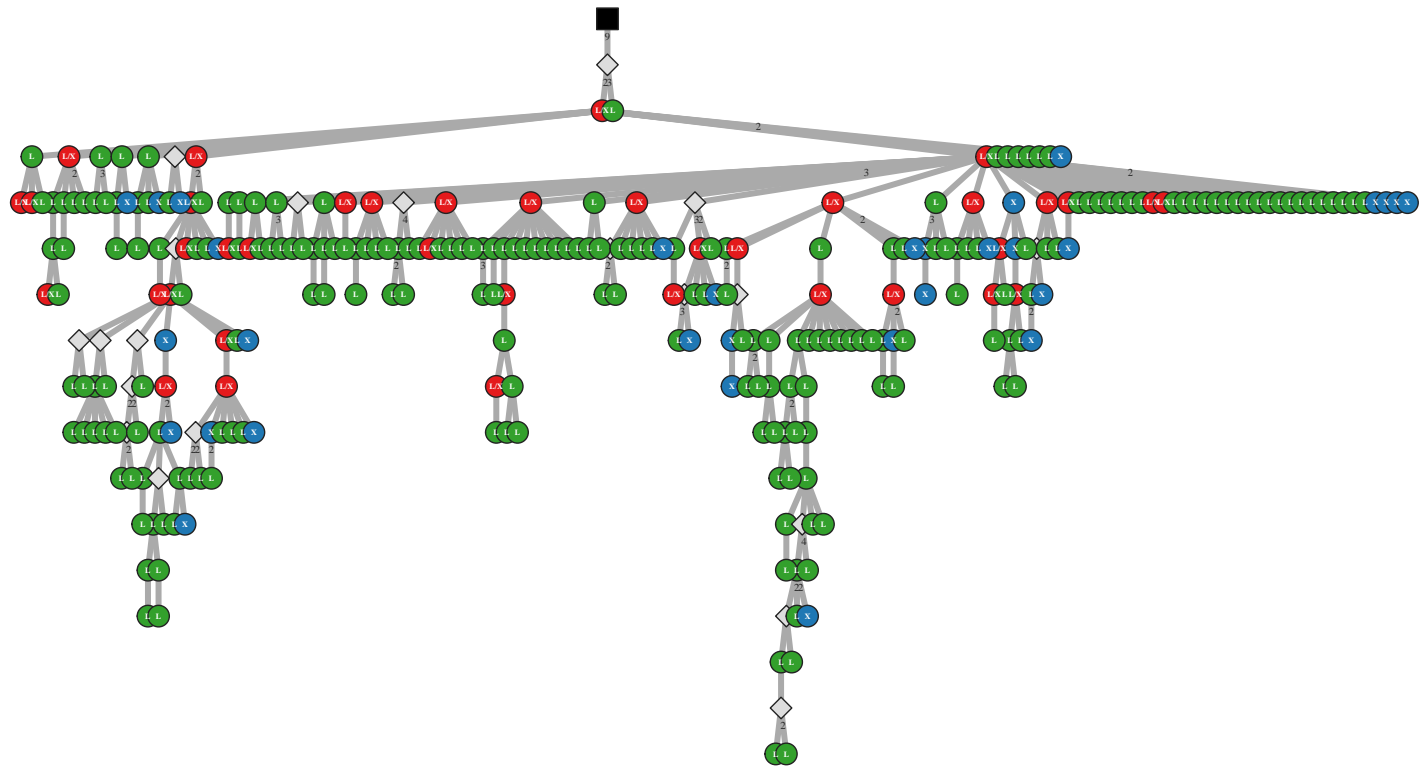
M3 IgG IGHV4-61/J6 54bp (12283)



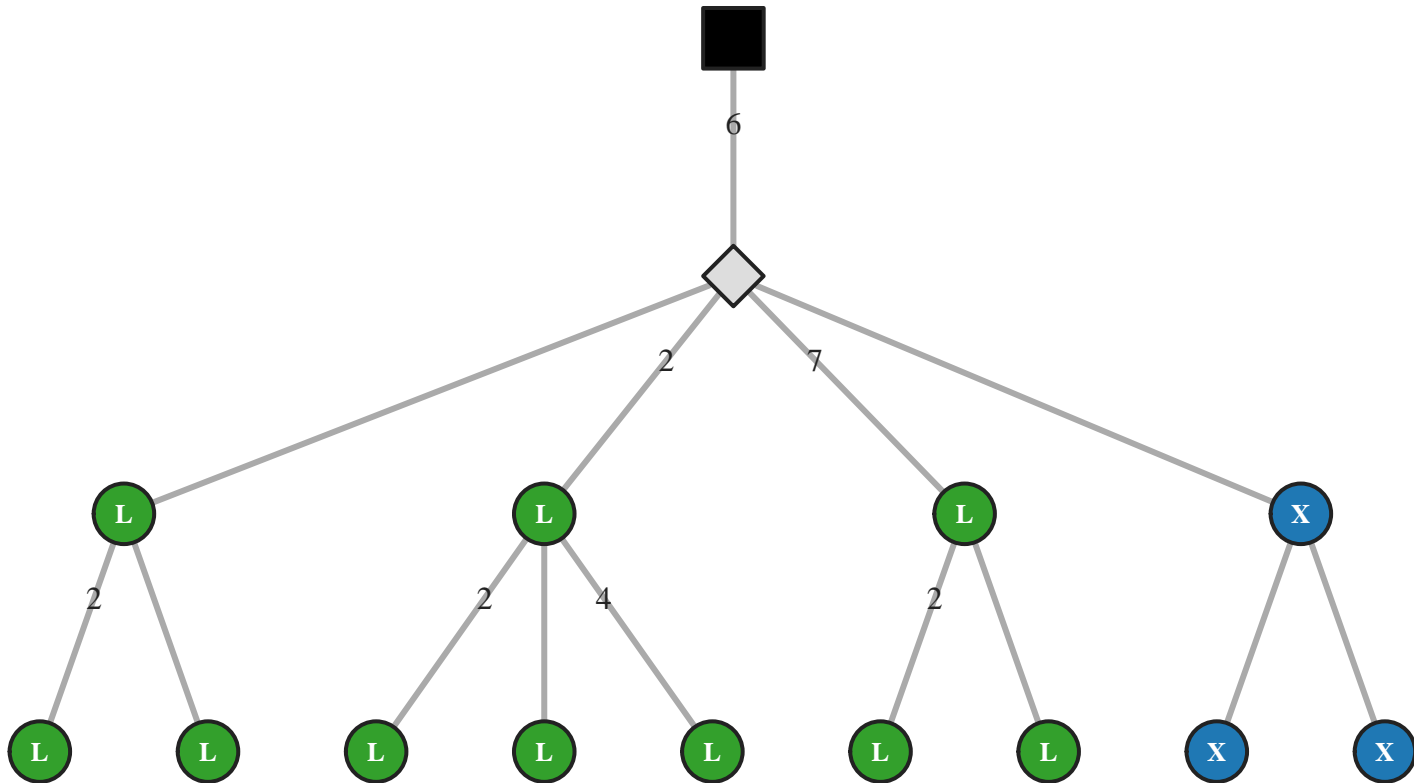
M3 IgG IGHV4-61/J6 54bp (12290)



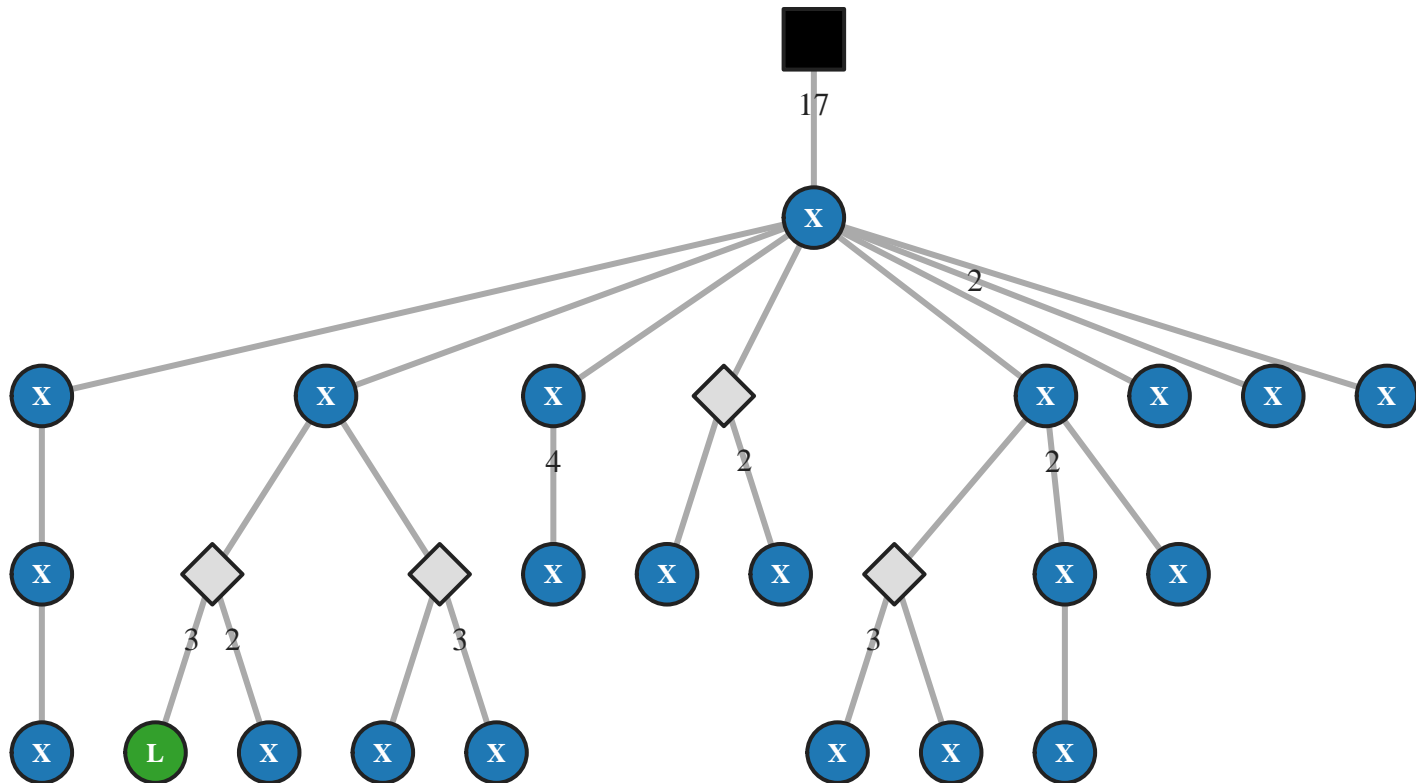
M3 IgG IGHV4-61/J6 57bp (7946)



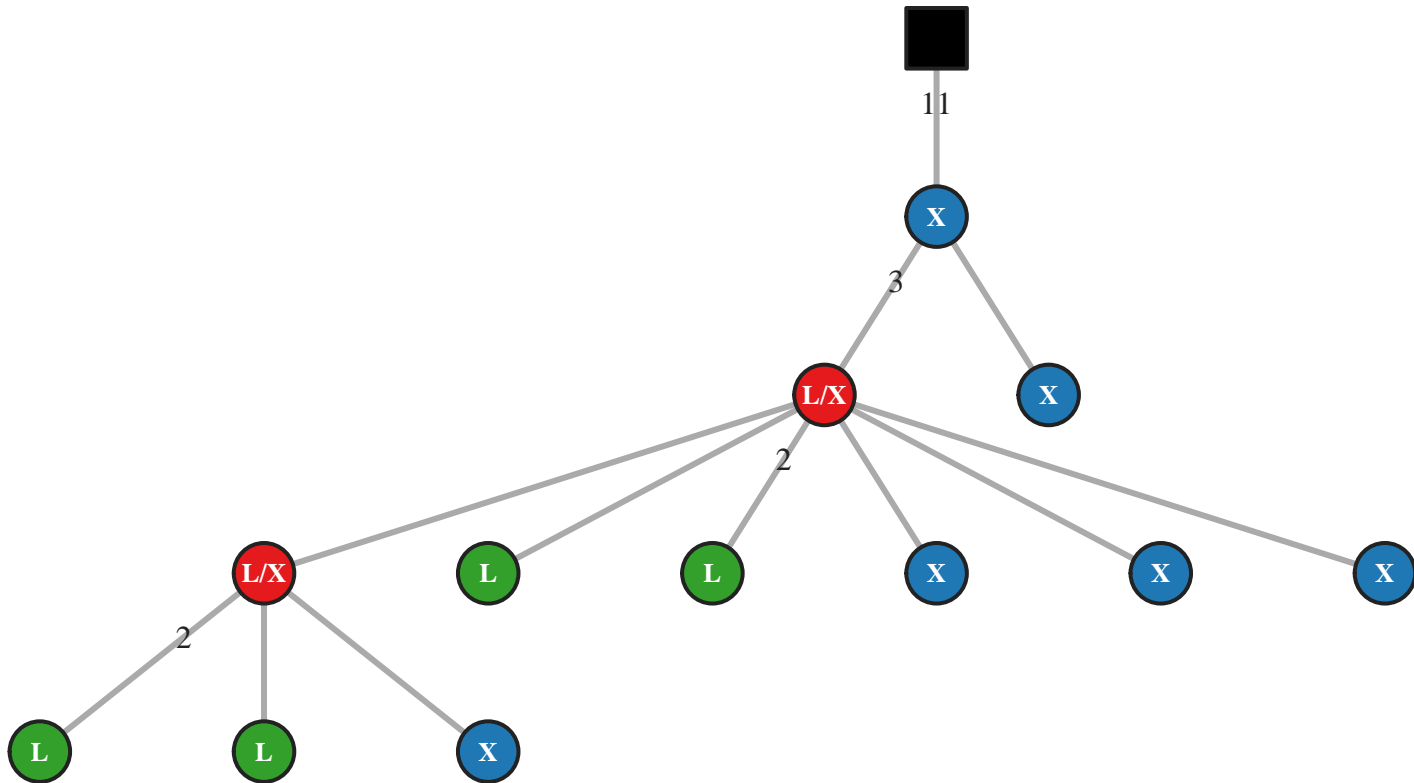
M3 IgG IGHV4-61/J6 66bp (7949)



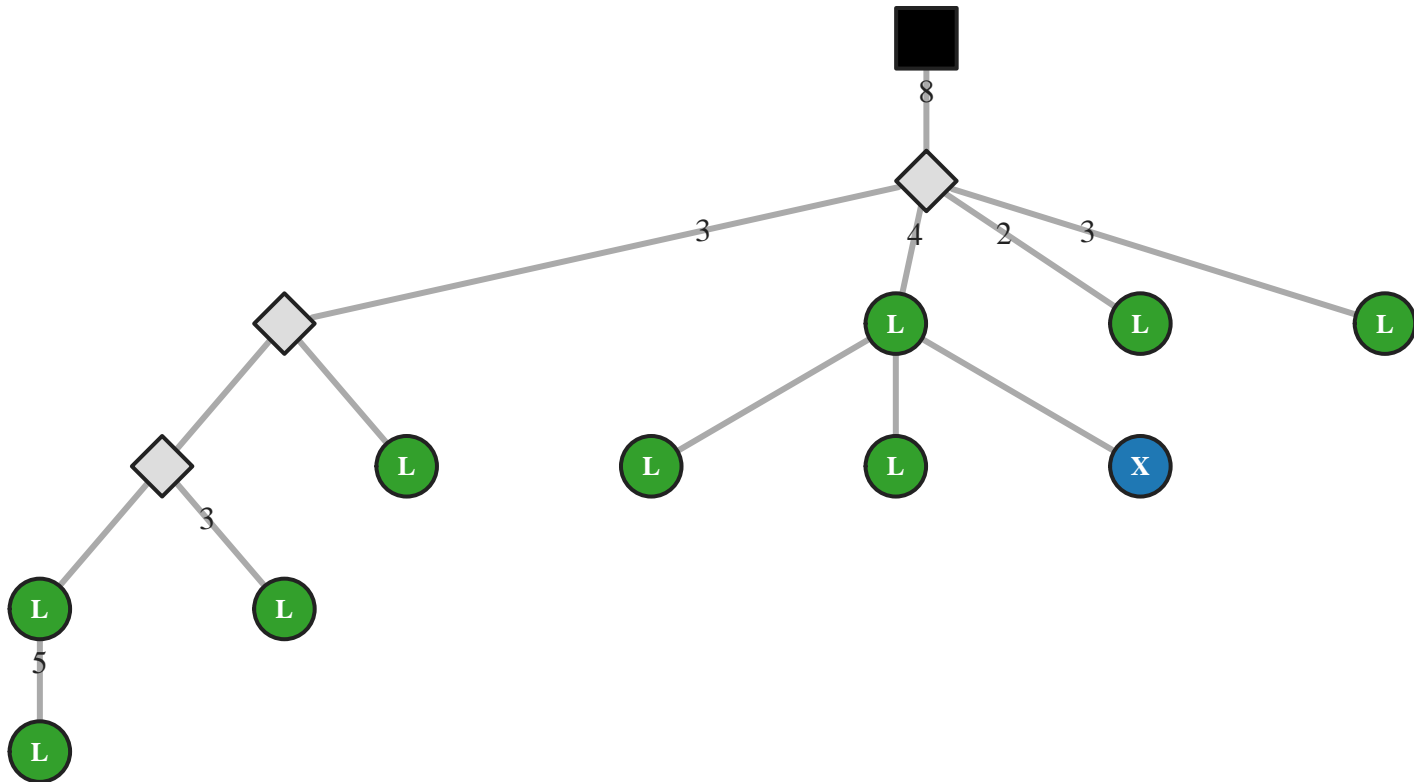
M3 IgG IGHV4-61/J6 66bp (7952)



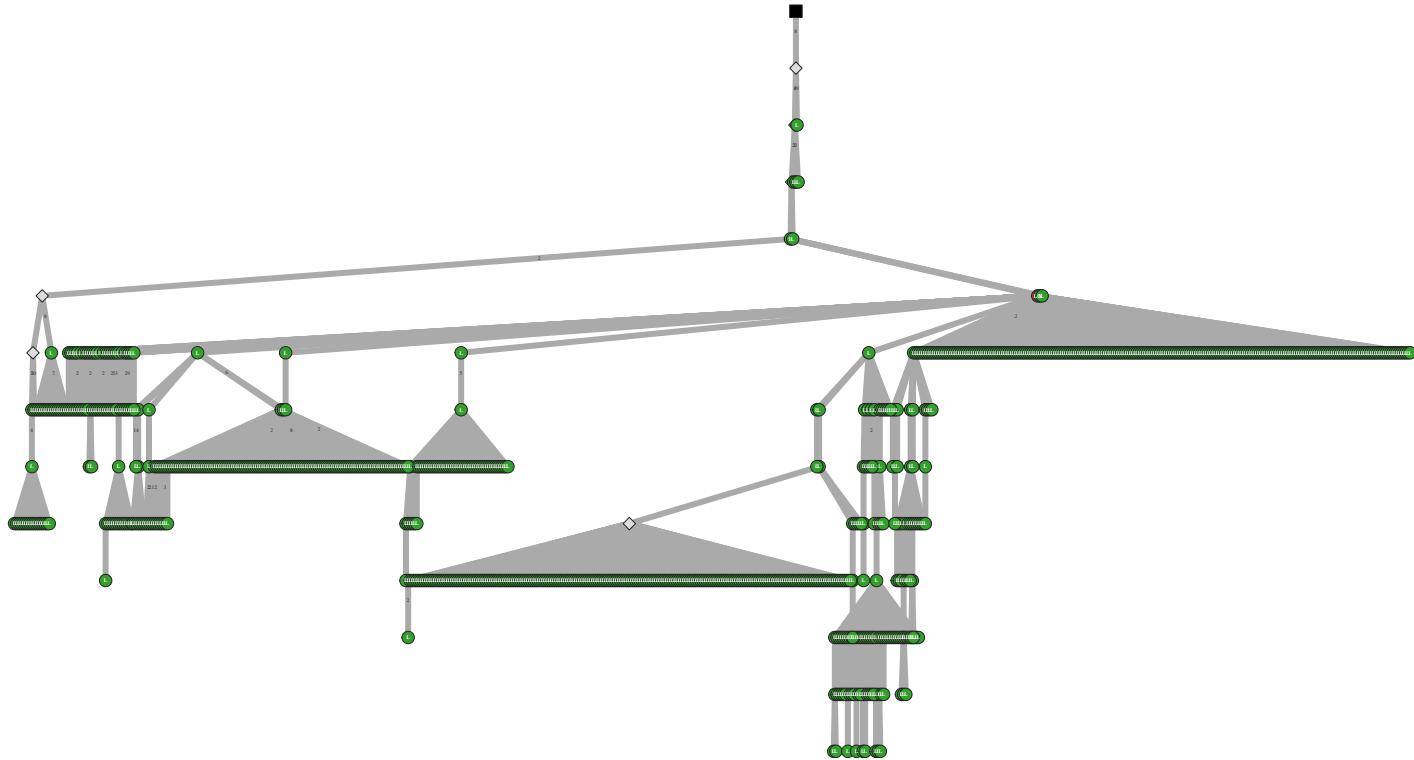
M3 IgG IGHV4-61/J6 69bp (15265)



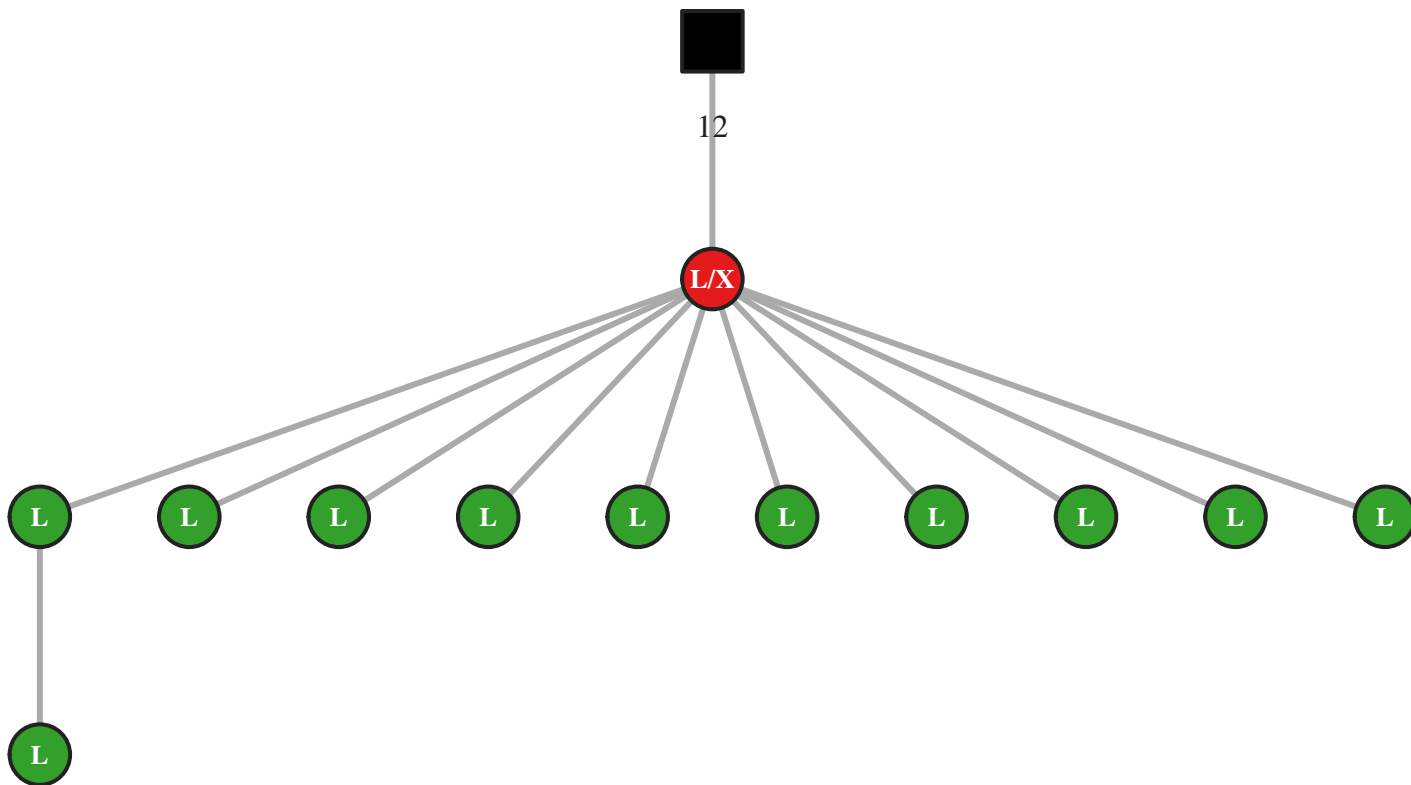
M3 IgG IGHV4-61/J6 75bp (7955)



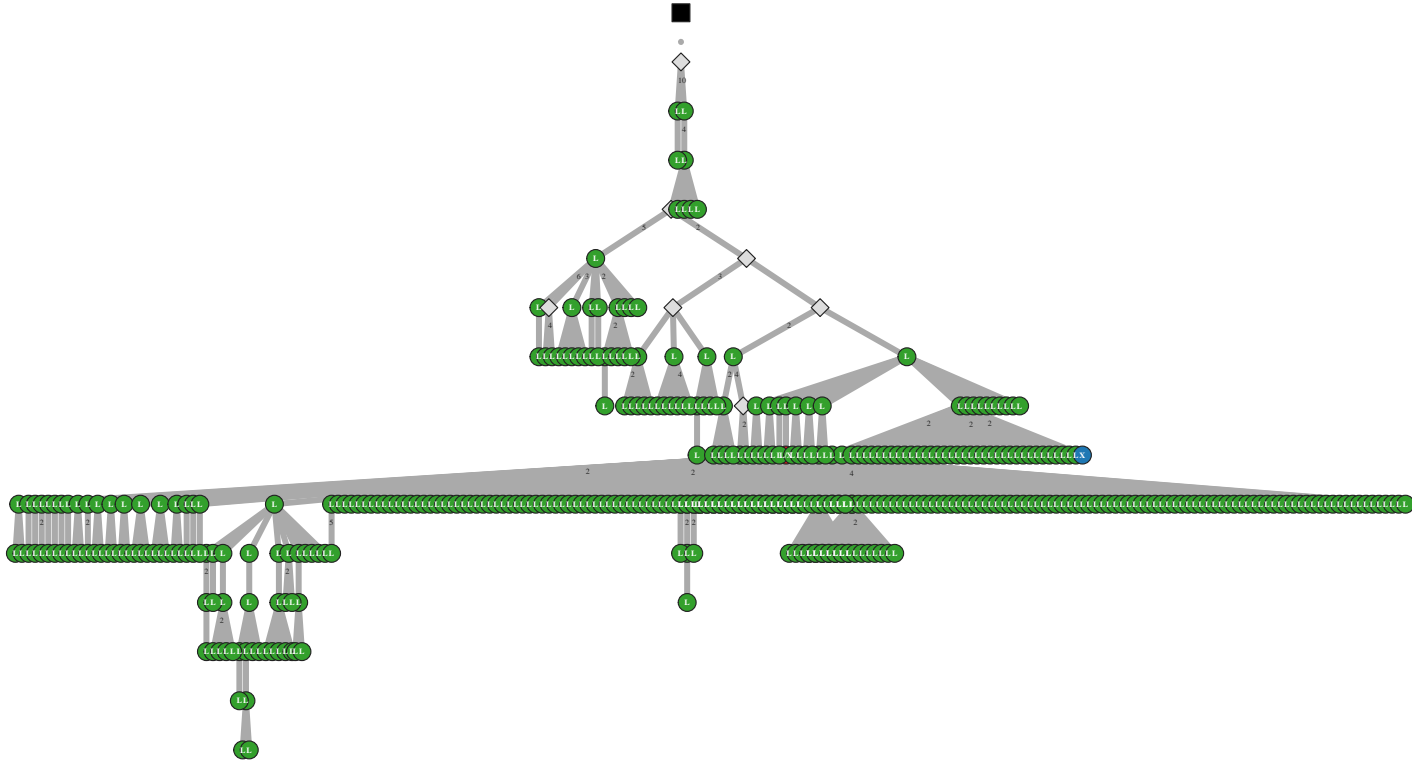
M3 IgG IGHV5-51/J3 48bp (7965)



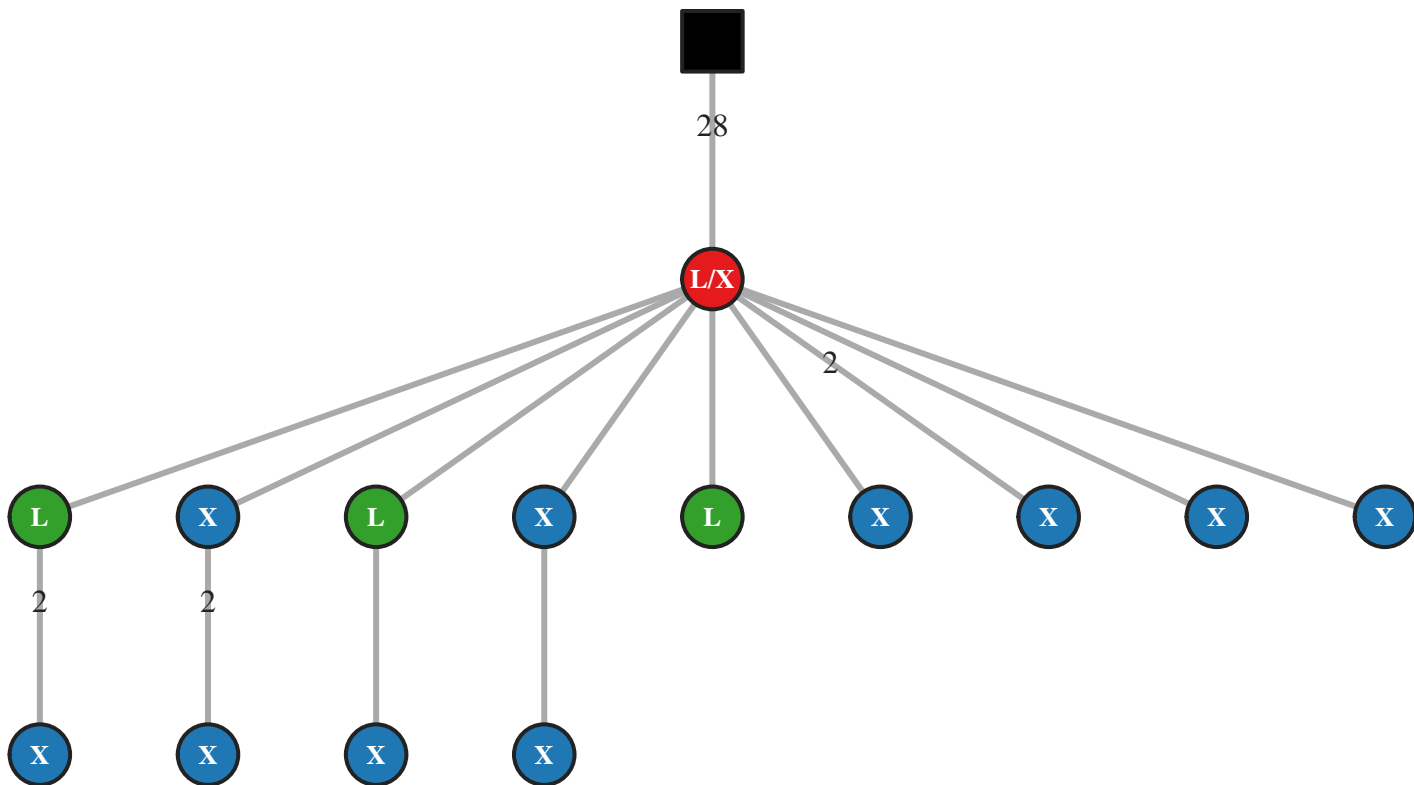
M3 IgG IGHV5-51/J3 48bp (7970)



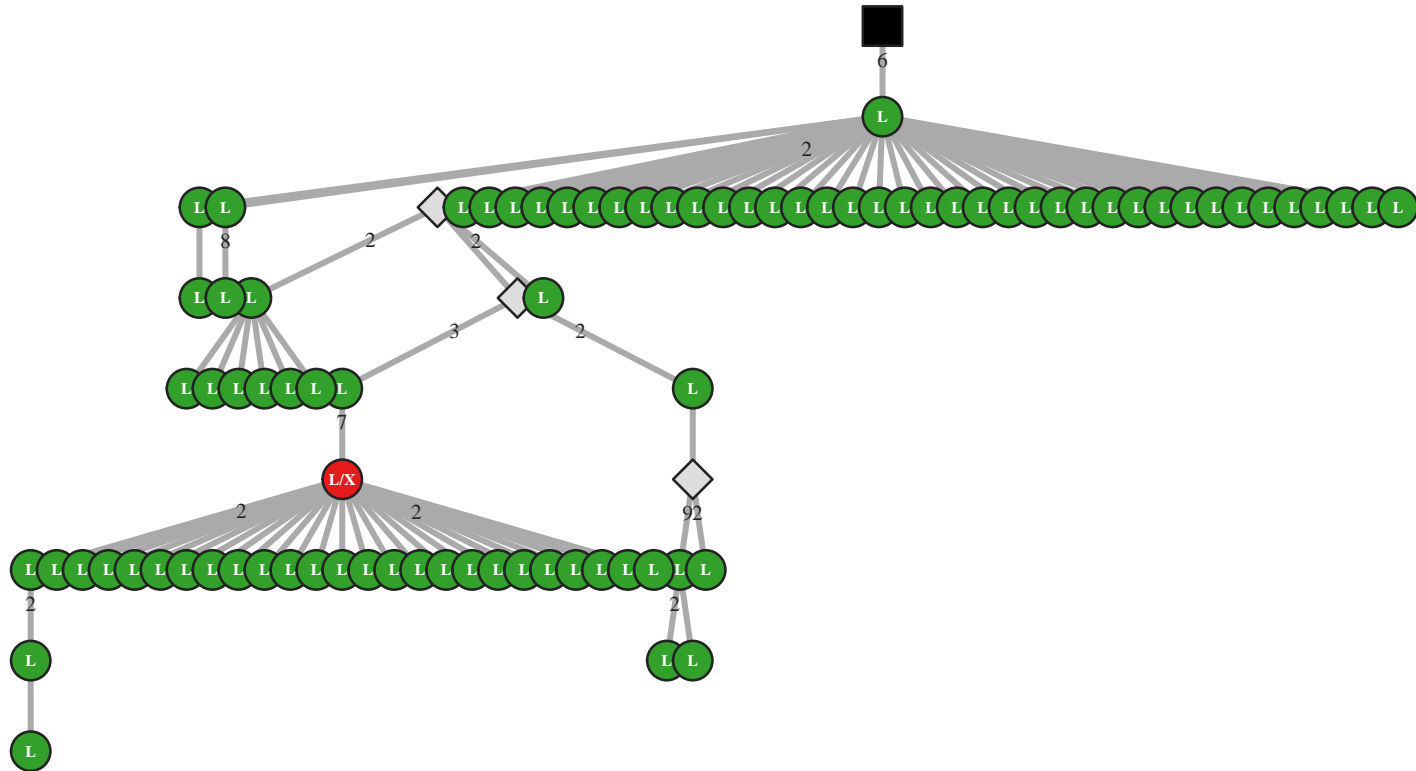
M3 IgM IGHV5-51/J4 48bp (16203)



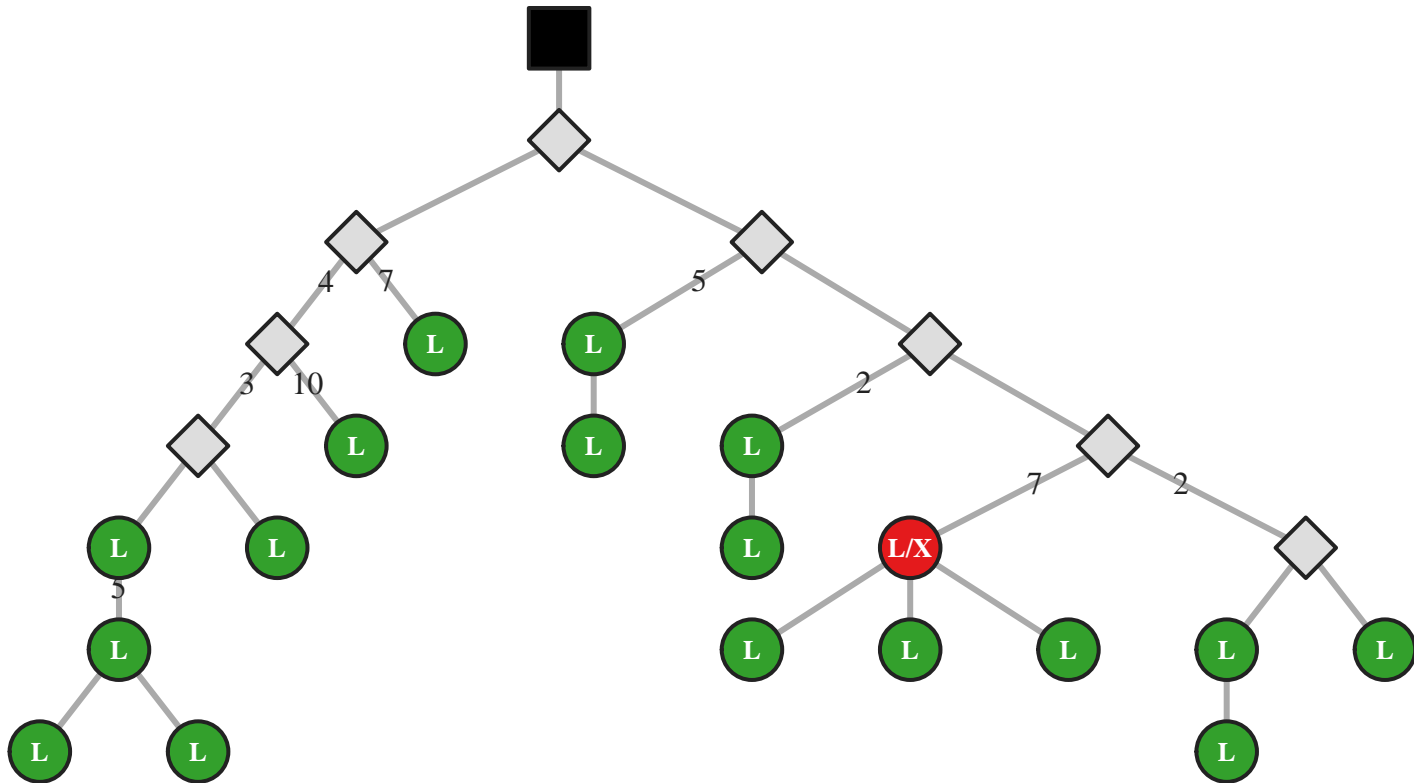
M3 IgG IGHV5-51/J4 51bp (12334)



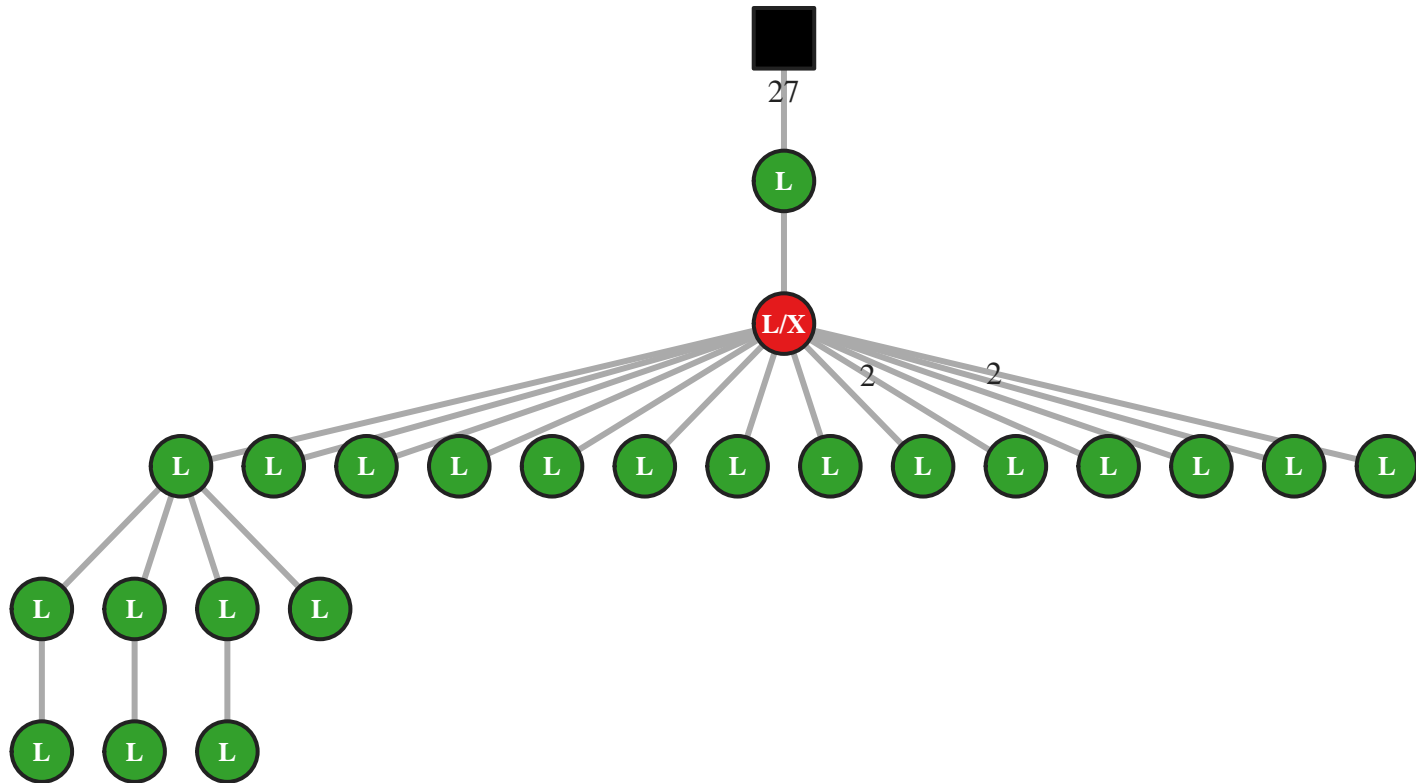
M3 IgA IGHV5-51/J4 54bp (2383)



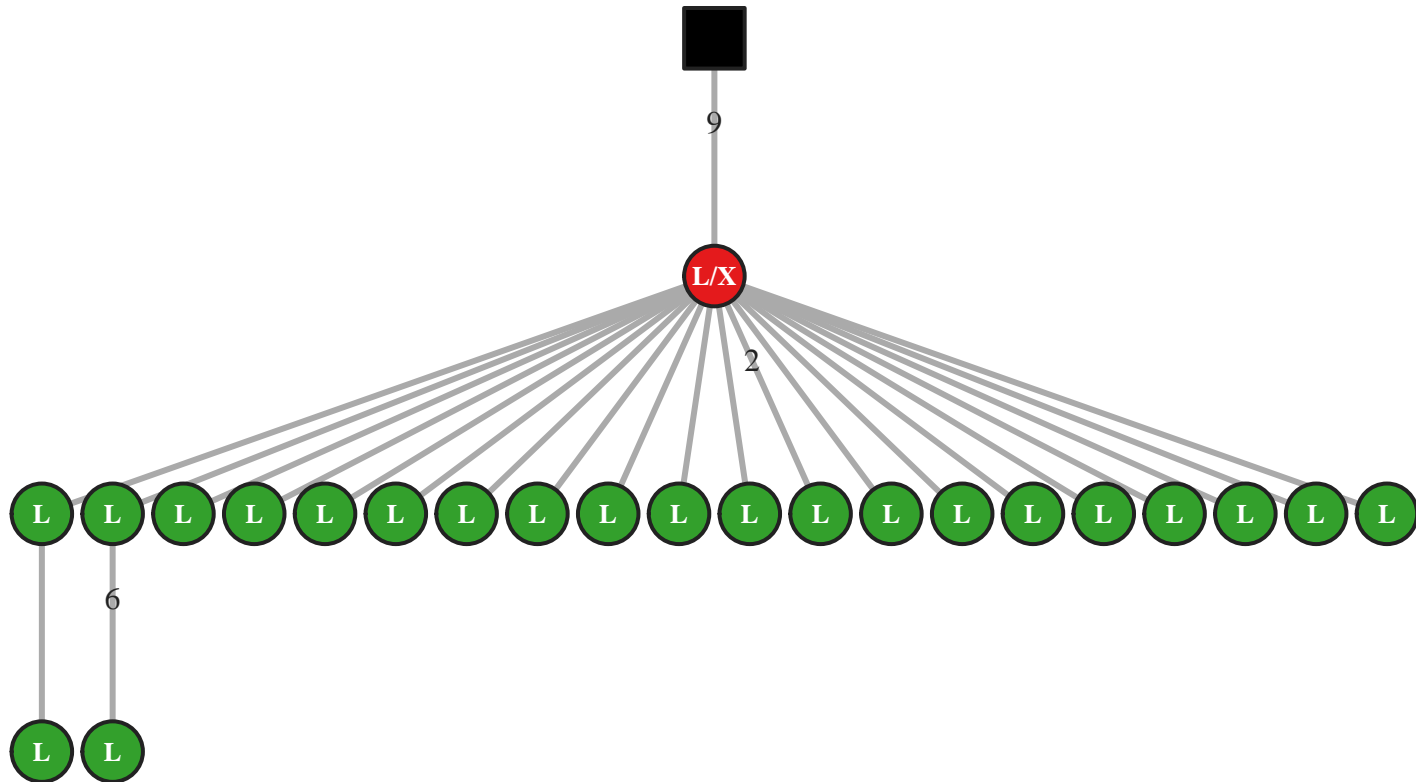
M3 IgM IGHV5-51/J4 57bp (5648)



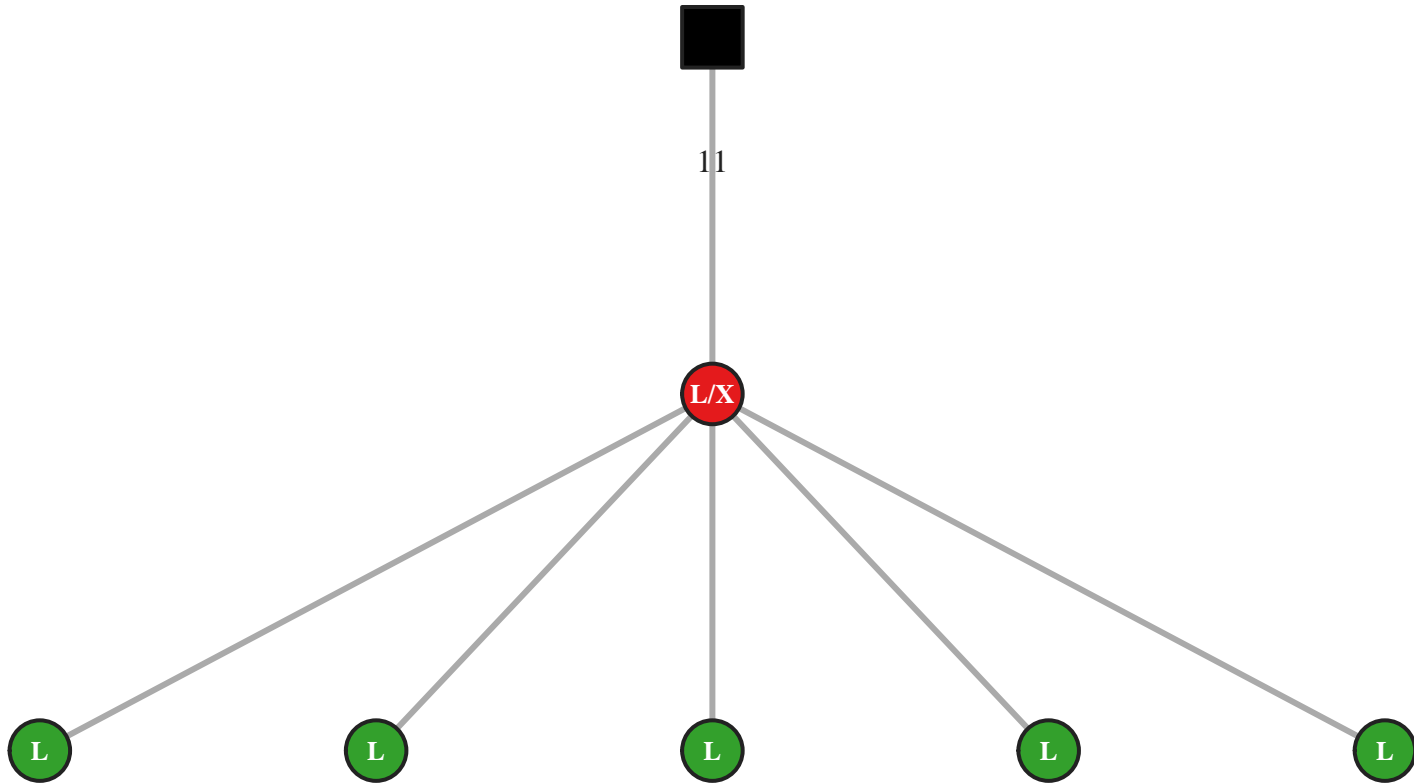
M3 IgG IGHV5-51/J5 60bp (7991)



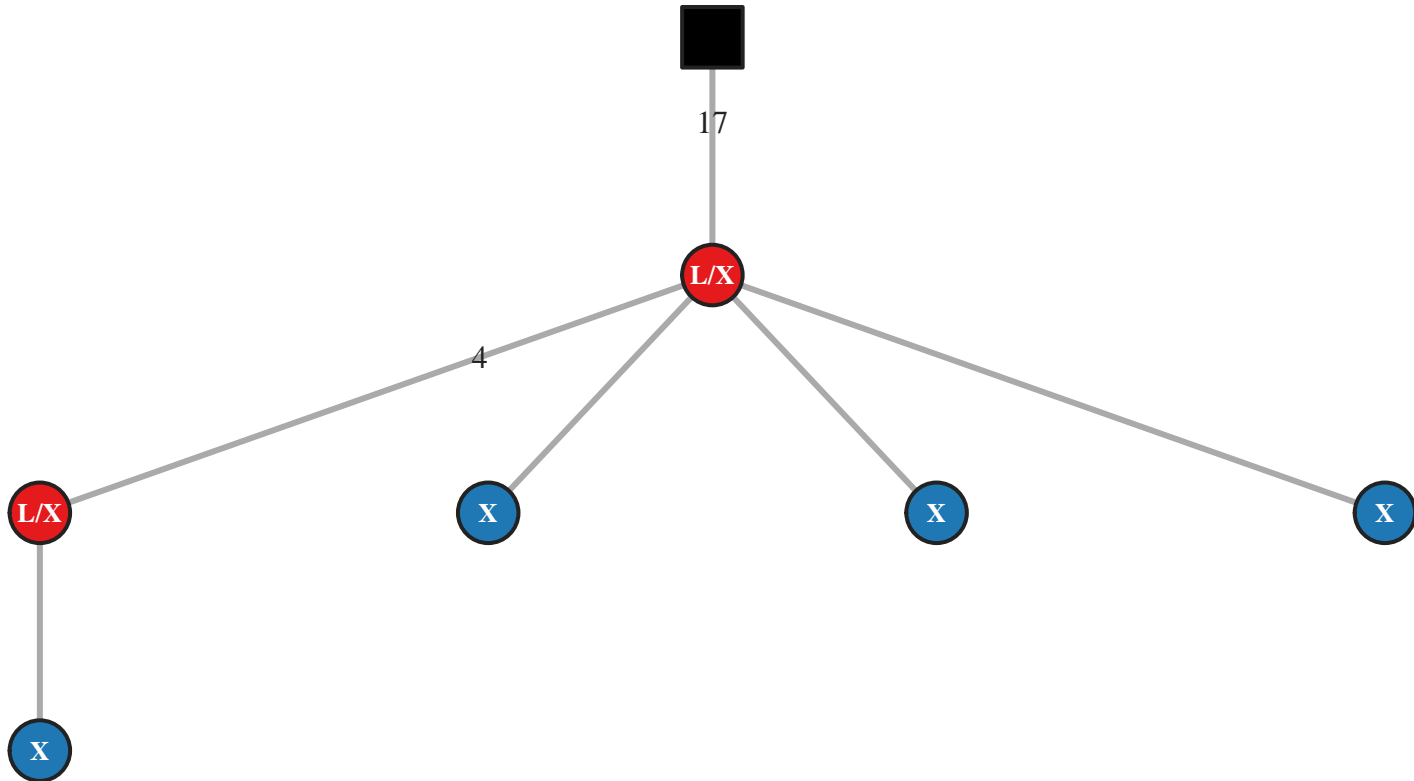
M3 IgG IGHV5-51/J6 45bp (7992)



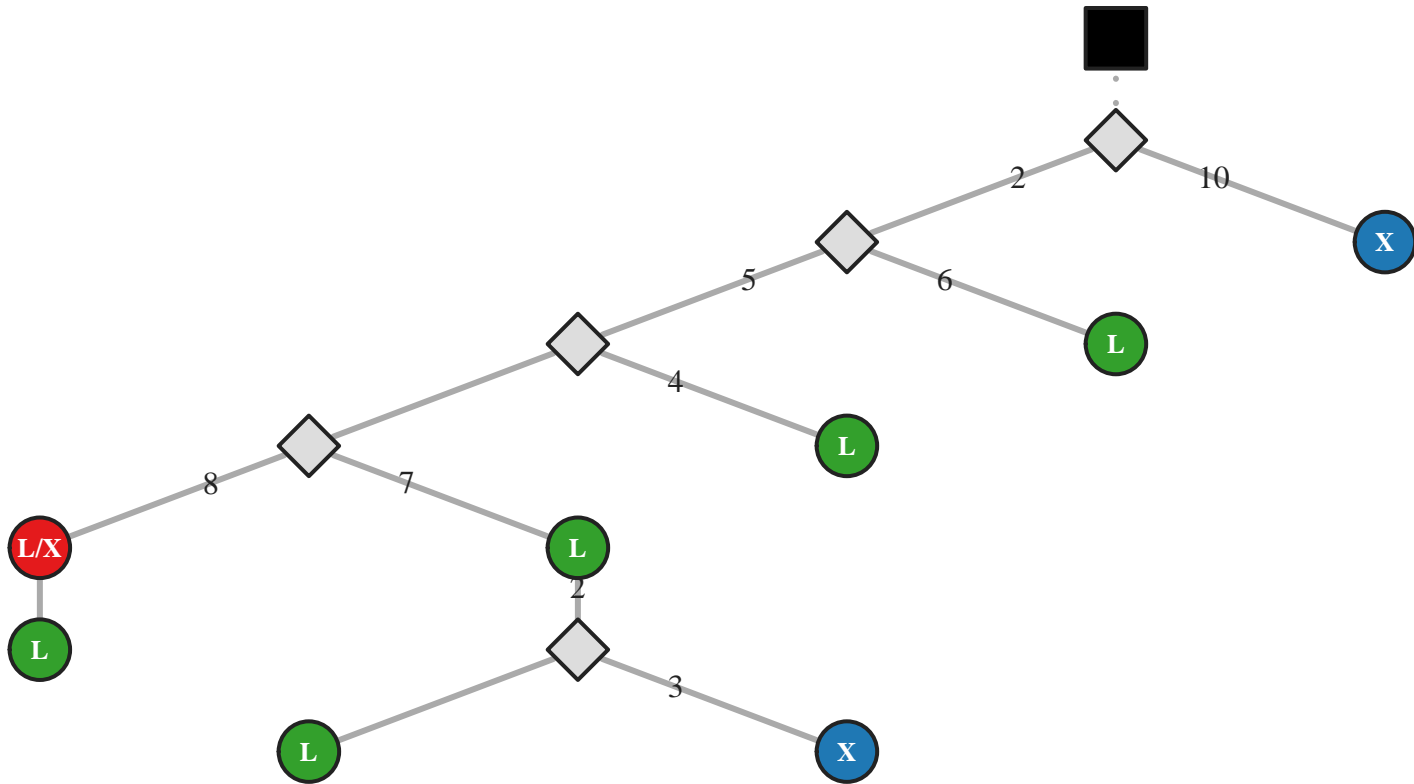
M3 IgM IGHV5-51/J6 66bp (13975)



M3 IgG IGHV5-51/J6 72bp (4232)



M3 IgG IGHV6-1/J6 57bp (12378)



M3 IgG IGHV6-1/J6 78bp (8011)

