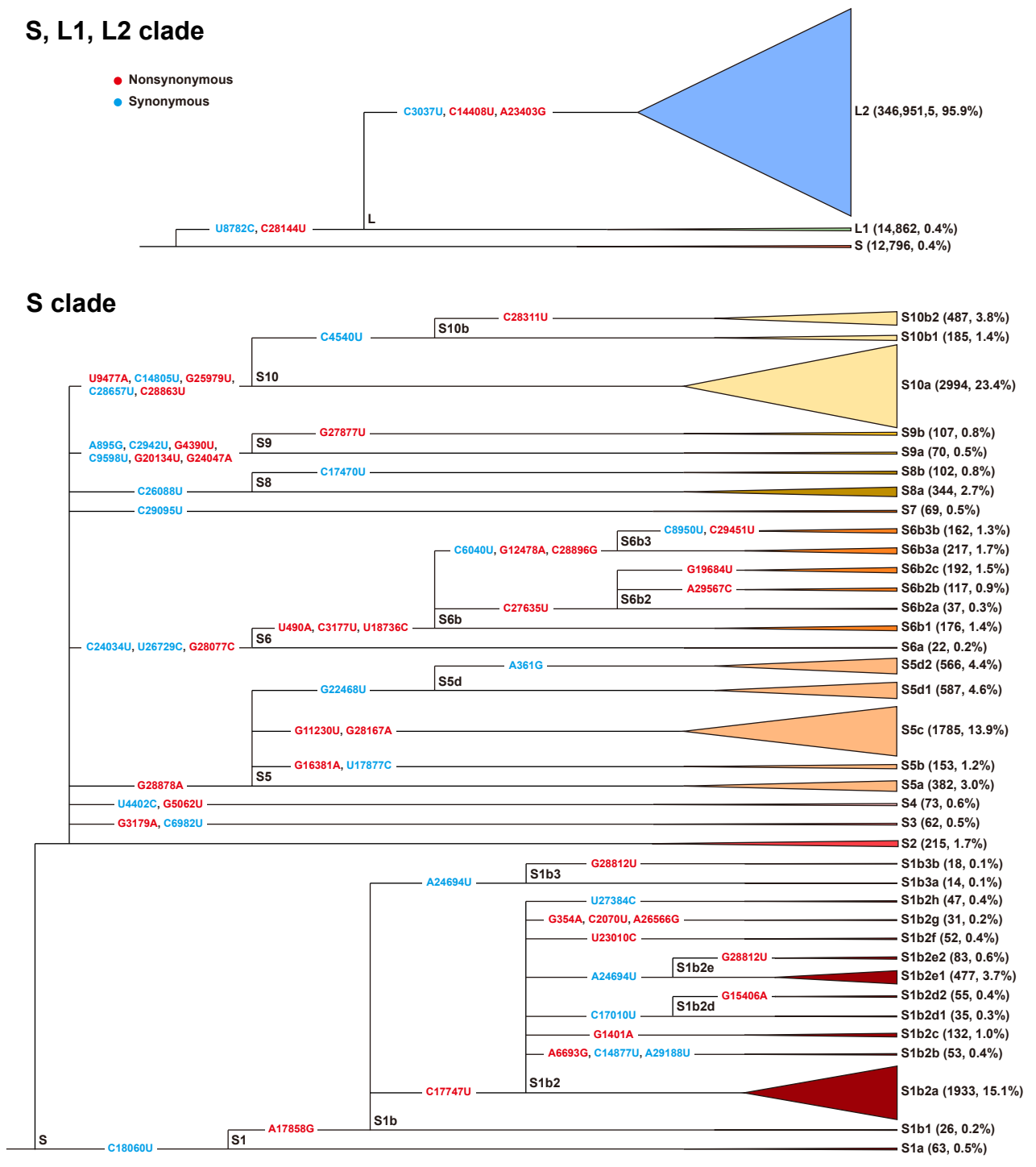
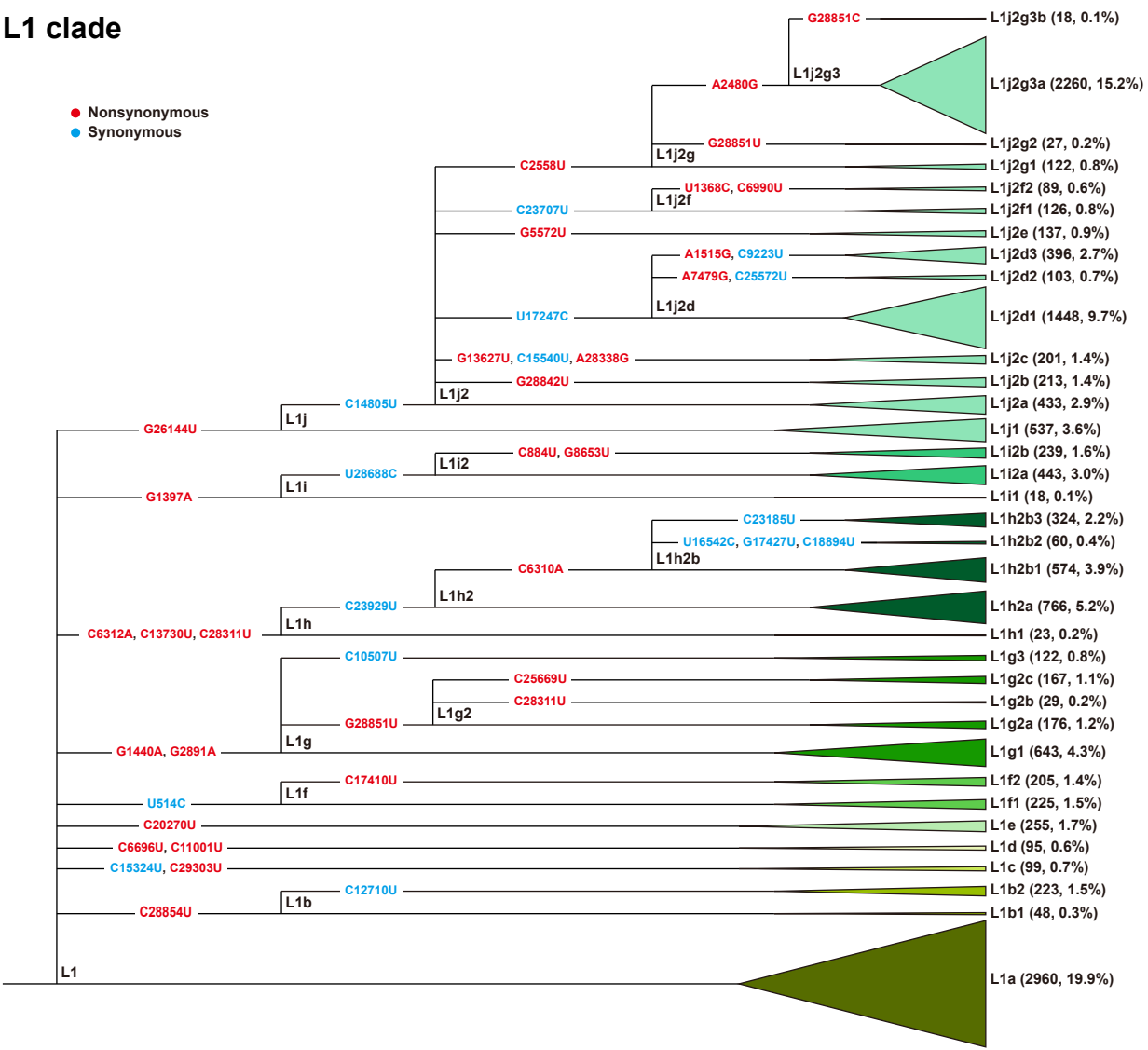
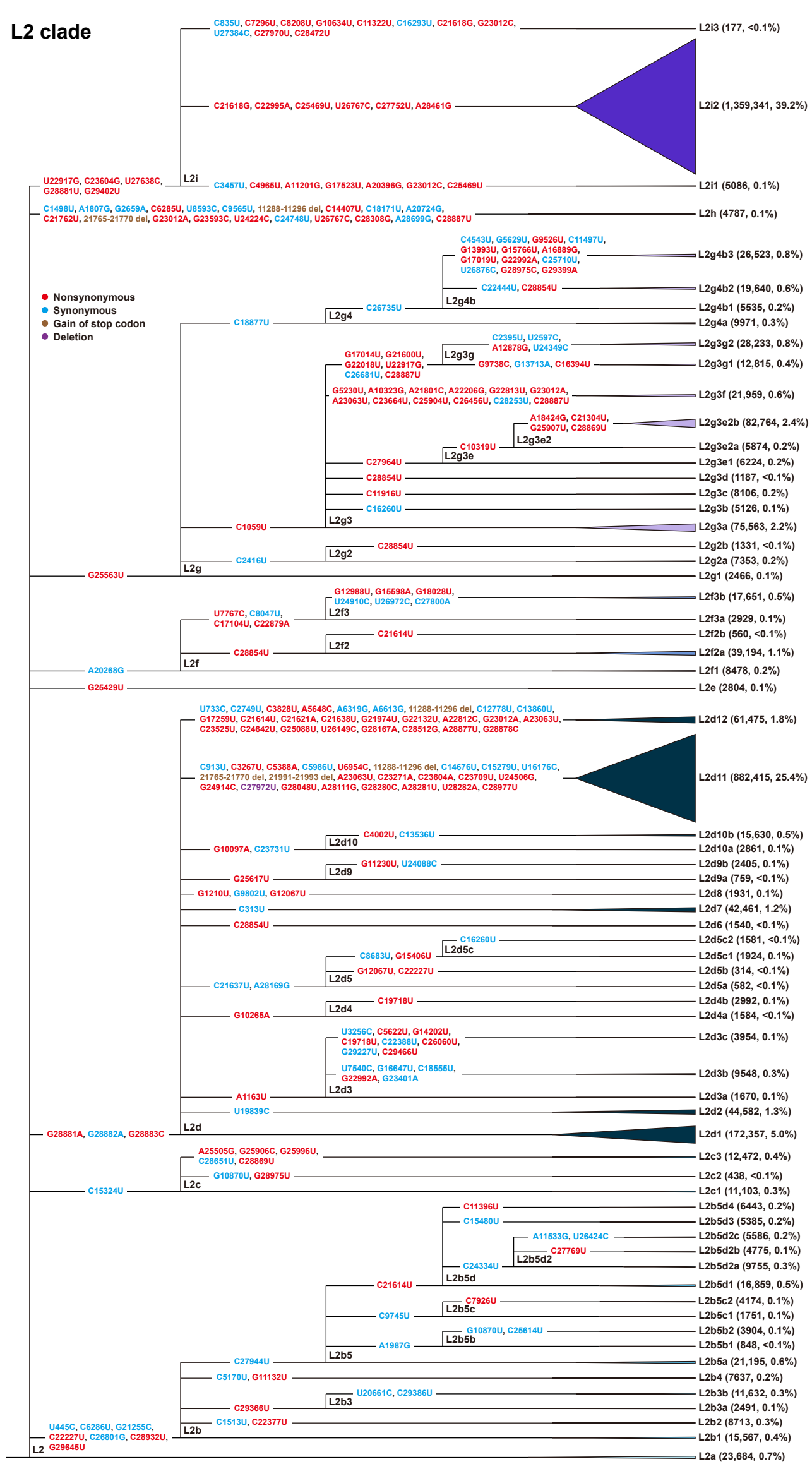

S, L1, L2 clade
Nonsynonymous
Synonymous
C3037U, C14408U, A23403G
L2 (346,951,5, 95.9%)
L
U8782C, C28144U
L1 (14,862, 0.4%)
S (12,796, 0.4%)
S clade
C28311U
S10b
S10b2 (487, 3.8%)
C4540U
S10b1 (185, 1.4%)
U9477A, C14805U, G25979U, C28657U, C28863U
S10
S10a (2994, 23.4%)
G27877U
S9b (107, 0.8%)
A895G, C2942U, G4390U, C9598U, G20134U, G24047A
S9
S9a (70, 0.5%)
C17470U
S8b (102, 0.8%)
C26088U
S8
S8a (344, 2.7%)
C29095U
S7 (69, 0.5%)
C8950U, C29451U
S6b3
S6b3b (162, 1.3%)
C6040U, G12478A, C28896G
S6b3a (217, 1.7%)
G19684U
S6b2c (192, 1.5%)
A29567C
S6b2
S6b2b (117, 0.9%)
C27635U
S6b2a (37, 0.3%)
U490A, C3177U, U18736C
S6b
S6b1 (176, 1.4%)
C24034U, U26729C, G28077C
S6
S6a (22, 0.2%)
A361G
S5d2 (566, 4.4%)
G22468U
S5d
S5d1 (587, 4.6%)
G11230U, G28167A
S5c (1785, 13.9%)
G16381A, U17877C
S5b (153, 1.2%)
G28878A
S5
S5a (382, 3.0%)
U4402C, G5062U
S4 (73, 0.6%)
G3179A, C6982U
S3 (62, 0.5%)
S2 (215, 1.7%)
G28812U
S1b3
S1b3b (18, 0.1%)
A24694U
S1b3a (14, 0.1%)
U27384C
S1b2h (47, 0.4%)
G354A, C2070U, A26566G
S1b2g (31, 0.2%)
U23010C
S1b2f (52, 0.4%)
G28812U
S1b2e
S1b2e2 (83, 0.6%)
A24694U
S1b2e1 (477, 3.7%)
G15406A
S1b2d
S1b2d2 (55, 0.4%)
C17010U
S1b2d1 (35, 0.3%)
G1401A
S1b2c (132, 1.0%)
A6693G, C14877U, A29188U
S1b2b (53, 0.4%)
C17747U
S1b2
S1b2a (1933, 15.1%)
S1b
A17858G
S1b1 (26, 0.2%)
S
C18060U
S1
S1a (63, 0.5%)

L1 clade


Nonsynonymous
Synonymous
G28851C
L1j2g3b (18, 0.1%)
L1j2g3
A2480G
L1j2g3a (2260, 15.2%)
G28851U
L1j2g2 (27, 0.2%)
L1j2g
C2558U
L1j2g1 (122, 0.8%)
U1368C, C6990U
L1j2f2 (89, 0.6%)
L1j2f
C23707U
L1j2f1 (126, 0.8%)
G5572U
L1j2e (137, 0.9%)
A1515G, C9223U
L1j2d3 (396, 2.7%)
A7479G, C25572U
L1j2d2 (103, 0.7%)
L1j2d
U17247C
L1j2d1 (1448, 9.7%)
G13627U, C15540U, A28338G
L1j2c (201, 1.4%)
G28842U
L1j2b (213, 1.4%)
L1j2
C14805U
L1j2a (433, 2.9%)
L1j
G26144U
L1j1 (537, 3.6%)
C884U, G8653U
L1i2b (239, 1.6%)
L1i2
U28688C
L1i2a (443, 3.0%)
L1i
G1397A
L1i1 (18, 0.1%)
C23185U
L1h2b3 (324, 2.2%)
U16542C, G17427U, C18894U
L1h2b2 (60, 0.4%)
L1h2b
C6310A
L1h2b1 (574, 3.9%)
L1h2
C23929U
L1h2a (766, 5.2%)
L1h
C6312A, C13730U, C28311U
L1h1 (23, 0.2%)
C10507U
L1g3 (122, 0.8%)
C25669U
L1g2c (167, 1.1%)
C28311U
L1g2b (29, 0.2%)
L1g2
G28851U
L1g2a (176, 1.2%)
L1g
G1440A, G2891A
L1g1 (643, 4.3%)
C17410U
L1f2 (205, 1.4%)
L1f
U514C
L1f1 (225, 1.5%)
C20270U
L1e (255, 1.7%)
C6696U, C11001U
L1d (95, 0.6%)
C15324U, C29303U
L1c (99, 0.7%)
C12710U
L1b2 (223, 1.5%)
L1b
C28854U
L1b1 (48, 0.3%)
L1
L1a (2960, 19.9%)


L2 clade
Nonsynonymous
Synonymous
Gain of stop codon
Deletion
L2
U445C, C6286U, G21255C, C22227U, C26801G, C28932U, G29645U
L2a (23,684, 0.7%)
L2b
C1513U, C22377U
L2b1 (15,567, 0.4%)
L2b2 (8713, 0.3%)
L2b3
C29366U
L2b3a (2491, 0.1%)
U20661C, C29386U
L2b3b (11,632, 0.3%)
L2b4 (7637, 0.2%)
C5170U, G11132U
L2b5
C27944U
L2b5a (21,195, 0.6%)
L2b5b
A1987G
G10870U, C25614U
L2b5b1 (848, <0.1%)
L2b5b2 (3904, 0.1%)
L2b5c
C9745U
L2b5c1 (1751, 0.1%)
L2b5c2 (4174, 0.1%)
C21614U
L2b5d1 (16,859, 0.5%)
L2b5d
C24334U
L2b5d2a (9755, 0.3%)
L2b5d2
C27769U
L2b5d2b (4775, 0.1%)
A11533G, U26424C
L2b5d2c (5586, 0.2%)
C15480U
L2b5d3 (5385, 0.2%)
C11396U
L2b5d4 (6443, 0.2%)
C15324U
L2c
G10870U, G28975U
L2c1 (11,103, 0.3%)
L2c2 (438, <0.1%)
A25505G, G25906C, G25996U, C28651U, C28869U
L2c3 (12,472, 0.4%)
G28881A, G28882A, G28883C
L2d
L2d1 (172,357, 5.0%)
A1163U
L2d3a (1670, 0.1%)
L2d3
U7540C, G16647U, C18555U, G22992A, G23401A
L2d3b (9548, 0.3%)
U3256C, C5622U, G14202U, C19718U, C22388U, C26060U, G29227U, C29466U
L2d3c (3954, 0.1%)
U19839C
L2d2 (44,582, 1.3%)
G10265A
L2d4
C19718U
L2d4a (1584, <0.1%)
L2d4b (2992, 0.1%)
C21637U, A28169G
L2d5
G12067U, C22227U
L2d5a (582, <0.1%)
L2d5b (314, <0.1%)
C8683U, G15406U
L2d5c1 (1924, 0.1%)
L2d5c
C16260U
L2d5c2 (1581, <0.1%)
C28854U
L2d6 (1540, <0.1%)
C313U
L2d7 (42,461, 1.2%)
G1210U, G9802U, G12067U
L2d8 (1931, 0.1%)
G25617U
L2d9
G11230U, U24088C
L2d9a (759, <0.1%)
L2d9b (2405, 0.1%)
G10097A, C23731U
L2d10
C4002U, C13536U
L2d10a (2861, 0.1%)
L2d10b (15,630, 0.5%)
C913U, C3267U, C5388A, C5986U, U6954C, 11288-11296 del, C14676U, C15279U, U16176C, 21765-21770 del, 21991-21993 del, A23063U, C23271A, C23604A, C23709U, U24506G, G24914C, C27972U, G28048U, A28111G, G28280C, A28281U, U28282A, C28977U
L2d11 (882,415, 25.4%)
U733C, C2749U, C3828U, A5648C, A6319G, A6613G, 11288-11296 del, C12778U, C13860U, G17259U, C21614U, C21621A, C21638U, G21974U, G22132U, A22812C, G23012A, A23063U, C23525U, C24642U, G25088U, U26149C, G28167A, C28512G, A28877U, G28878C
L2d12 (61,475, 1.8%)
G25429U
L2e (2804, 0.1%)
A20268G
L2f1 (8478, 0.2%)
L2f
C28854U
L2f2a (39,194, 1.1%)
L2f2
C21614U
L2f2b (560, <0.1%)
L2f3
U7767C, C8047U, C17104U, C22879A
L2f3a (2929, 0.1%)
G12988U, G15598A, G18028U, U24910C, U26972C, C27800A
L2f3b (17,651, 0.5%)
G25563U
L2g
C1059U
L2g3a (75,563, 2.2%)
L2g3
C16260U
L2g3b (5126, 0.1%)
C11916U
L2g3c (8106, 0.2%)
C28854U
L2g3d (1187, <0.1%)
C27964U
L2g3e1 (6224, 0.2%)
L2g3e
C10319U
L2g3e2a (5874, 0.2%)
L2g3e2
A18424G, C21304U, G25907U, C28869U
L2g3e2b (82,764, 2.4%)
G5230U, A10323G, A21801C, A22206G, G22813U, G23012A, A23063U, C23664U, C25904U, C26456U, C28253U, C28887U
L2g3f (21,959, 0.6%)
L2g3g
G17014U, G21600U, G22018U, U22917G, C26681U, C28887U
G9738C, G13713A, C16394U
L2g3g1 (12,815, 0.4%)
C2395U, U2597C, A12878G, U24349C
L2g3g2 (28,233, 0.8%)
C18877U
L2g4
C26735U
L2g4a (9971, 0.3%)
L2g4b
L2g4b1 (5535, 0.2%)
C22444U, C28854U
L2g4b2 (19,640, 0.6%)
C4543U, G5629U, G9526U, C11497U, G13993U, G15766U, A16889G, G17019U, G22992A, C25710U, U26876C, G28975C, G29399A
L2g4b3 (26,523, 0.8%)
C2416U
L2g2
C28854U
L2g2a (7353, 0.2%)
L2g2b (1331, <0.1%)
C1498U, A1807G, G2659A, C6285U, U8593C, C9565U, 11288-11296 del, C14407U, C18171U, A20724G, C21762U, 21765-21770 del, G23012A, G23593C, U24224C, C24748U, U26767C, C28308G, A28699G, C28887U
L2h (4787, 0.1%)
U22917G, C23604G, U27638C, G28881U, G29402U
L2i
C3457U, C4965U, A11201G, G17523U, A20396G, G23012C, C25469U
L2i1 (5086, 0.1%)
C21618G, C22995A, C25469U, U26767C, C27752U, A28461G
L2i2 (1,359,341, 39.2%)
C835U, C7296U, C8208U, G10634U, C11322U, C16293U, C21618G, G23012C, U27384C, C27970U, C28472U
L2i3 (177, <0.1%)