

Fig. S5

A. Family F1 alignment

Tel4d GTGCGATGCGAAAGCAGCCAGGTGATTGTCCCGTAGCCCAACAAGCTAGAACGGGACCGATTGTTCCCCCAACCGTAGCCTAGGGAGGCATGCGCGAC 100
Tel4a GTGGCAGCGGAAAGCTAGCCAGATGATTGTCCCACTAGCCCAACAAGCTAGAACGGGACCGGTTGTTCCCCCAACCGTAGCCTAGGGAGGCATGCGCGAC 100
Tel4b GTGCGACGCGAAAGCTAGCCAGATGATTGTCCCACTAGCCCAACAAGCTAGAACGGGACCGGTTGTTCCCCCAACCGTAGCCTAGGGAGGCATGCGCGAC 100
Tel4c GTGGCAGCGGAAAGCTAGCCAGATGATTGTCCCACTAGCCCAACAAGCTAGAACGGGACCGGTTGTTCCCCCAACCGTAGCCTAGGGAGGCATGCGCGAC 100
Tel4e GTGCGACGCGAAAGCTAGCCAGATGATTGTCCCACTAGCCCAACAAGCTAGAACGGGACCGGTTGTTCCCCCAACCGTAGCCTAGGGAGGCATGCGCGAC 100

Tel4d TGGTAACGGTCAGGTATGAAGCCCTCCCGACAACGGAGCCGAACCGAAAGGTTGAAGCCGAATCCGTGAGGAGGAAGCAACTTTGCCAGCGTCAGGCGA 200
Tel4a TGGTAACGGTCAGGTATGAAGCCCTCCCGACAACGGAGCCGAACCGAAAGGTTGAAGCCGAATCCGTGAGGAGGAAGCAACTTTGCCAGCGTCAGGCGA 200
Tel4b TGGTAACGGTCAGGTATGAAGCCCTCCCGACAACGGAGCCGAACCGAAAGGTTGAAGCCGAATCCGTGAGGAGGAAGCAACTTTGCCAGCGTCAGGCGA 200
Tel4c TGGTAACGGTCAGGTATGAAGCCCTCCCGACAACGGAGCCGAACCGAAAGGTTGAAGCCGAATCCGTGAGGAGGAAGCAACTTTGCCAGCGTCAGGCGA 200
Tel4e TGGTAACGGTCAGGTATGAAGCCCTCCCGACAACGGAGCCGAACCGAAAGGTTGAAGCCGAATCCGTGAGGAGGAAGCAACTTTGCCAGCGTCAGGCGA 200

Tel4d TAGGGAGCTAGGCTTGAAGGATGTTGAAAGCCGCAAGTGAAGTACGCCAGAAGCCCTGTTACTATAAACAGGCCAAAGACGCCGATAGGCTGAGCCAAA 300
Tel4a TAGGGAGCTAGGCTTGAAGGATGTTGAAAGCCGCAAGTGAAGTGAAGTACGCCAGAAGCCCTGTTACTATAAACAGGCCAAAGACGCCGATAGGCTGAGCCAAA 300
Tel4b TAGGGAGCTAGGCTTGAAGGATGTTGAAAGCCGCAAGTGAAGTGAAGTACGCCAGAAGCCCTGTTACTATAAACAGGCCAAAGACGCCGATAGGCTGAGCCAAA 300
Tel4c TAGGGAGCTAGGCTTGAAGGATGTTGAAAGCCGCAAGTGAAGTGAAGTACGCCAGAAGCCCTGTTACTATAAACAGGCCAAAGACGCCGATAGGCTGAGCCAAA 300
Tel4e TAGGGAGCTAGGCTTGAAGGATGTTGAAAGCCGCAAGTGAAGTGAAGTACGCCAGAAGCCCTGTTACTATAAACAGGCCAAAGACGCCGATAGGCTGAGCCAAA 300

Tel4d TGGCAACGGACTGGTTTCACTGCTGTCTCAGTGGACGGGGACAAAGCTCCGCGGGTAAAGTACCACCTAACCCCTCGCGTCATCTGGTTGGA 400
Tel4a TGGCAACGGACTGGTTTCACTGCTGTCTCAGTGGACGGGGACAAAGTTCCTGCGGGTAAAGTACCACCTAACCCCTCGCGTCATCTGGTTGGA 400
Tel4b TGGCAACGGACTGGTTTCACTGCTGTCTCAGTGGACGGGGACAAAGTTCCTGCGGGTAAAGTACCACCTAACCCCTCGCGTCATCTGGTTGGA 400
Tel4c TGGCAACGGACTGGTTTCACTGCTGTCTCAGTGGACGGGGACAAAGTTCCTGCGGGTAAAGTACCACCTAACCCCTCGCGTCATCTGGTTGGA 400
Tel4e TGGCAACGGACTGGTTTCACTGCTGTCTCAGTGGACGGGGACAAAGTTCCTGCGGGTAAAGTACCACCTAACCCCTCGCGTCATCTGGTTGGA 400

Tel4d ACGCGGTAAGCCCGTATCTGCGCTTGAACATTCAGGCAAGCAACCCGTAAGGAATGCTGATGAGGGTGCGGGTATGGGATGCAGGAGAAAGCGAATGC 500
Tel4a ACGCGGTAAGCCCGTATCTTCCGCTTGAACATTCAGGCAAGCAACCCGTAAGGAATGCTGATGAGGGTGCGGGTATGGGATGCAGGAGAAAGCGAATGC 500
Tel4b ACGCGGTAAGCCCGTATCTTCCGCTTGAACATTCAGGCAAGCAACCCGTAAGGAATGCTGATGAGGGTGCGGGTATGGGATGCAGGAGAAAGCGAATGC 500
Tel4c ACGCGGTAAGCCCGTATCTTCCGCTTGAACATTCAGGCAAGCAACCCGTAAGGAATGCTGATGAGGGTGCGGGTATGGGATGCAGGAGAAAGCGAATGC 500
Tel4e ACGCGGTAAGCCCGTATCTTCCGCTTGAACATTCAGGCAAGCAACCCGTAAGGAATGCTGATGAGGGTGCGGGTATGGGATGCAGGAGAAAGCGAATGC 500

Tel4d TGGTCTGTAAAGGACCGGATAGGGGTTGAGGAAAGCAACATCAACATCACCCGCGCCGAAAGGGAGCAGACTTCTGCTGGTCTCCCTTTCGAGATAACCT 600
Tel4a TGGTCTGTAAAGGACCGGATAGGGGTTGAGGAAAGCAACATCAACATCACCCGCGCCGAAAGGGAGCAGACTTCTGCTGGTCTCCCTTTCGAGATAACCT 600
Tel4b TGGTCTGTAAAGGACCGGATAGGGGTTGAGGAAAGCAACATCAACATCACCCGCGCCGAAAGGGAGCAGACTTCTGCTGGTCTCCCTTTCGAGATAACCT 600
Tel4c TGGTCTGTAAAGGACCGGATAGGGGTTGAGGAAAGCAACATCAACATCACCCGCGCCGAAAGGGAGCAGACTTCTGCTGGTCTCCCTTTCGAGATAACCT 600
Tel4e TGGTCTGTAAAGGACCGGATAGGGGTTGAGGAAAGCAACATCAACATCACCCGCGCCGAAAGGGAGCAGACTTCTGCTGGTCTCCCTTTCGAGATAACCT 600

Tel4d GTAGAACCCTTGAATGGAGACAAGGCAAAATGACGGTGGACCAAAACCTGGTGCAGTACCAACCAACCGGAAATAGTGGCACAGCATAAACTGGGC 700
Tel4a GTAGAACCCTTGAATGGAGACAAGGCAAAATGACGGTGGACCAAAACCTGGTGCAGTACCAACCAACCGGAAATAGTGGCACAGCATAAACTGGGC 700
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Tel4c GTAGAACCCTTGAATGGAGACAAGGCAAAATGACGGTGGACCAAAACCTGGTGCAGTACCAACCAACCGGAAATAGTGGCACAGCATAAACTGGGC 700
Tel4e GTAGAACCCTTGAATGGAGACAAGGCAAAATGACGGTGGACCAAAACCTGGTGCAGTACCAACCAACCGGAAATAGTGGCACAGCATAAACTGGGC 700

Tel4d CAAAGCCAACCGTAGGTAAGAGGCTGCAAGTGCATCGCAAAGGCTGTGAAGGAAGGACGCTGGGGCAAAGTGAAGCTTTGCAATGGCTCCTGACC 800
Tel4a CAAAGCCAACCGTAGGTAAGAGGCTGCAAGTGCATCGCAAAGGCTGTGAAGGAAGGACGCTGGGGCAAAGTGAAGCTTTGCAATGGCTCCTGACC 800
Tel4b CAAAGCCAACCGTAGGTAAGAGGCTGCAAGTGCATCGCAAAGGCTGTGAAGGAAGGACGCTGGGGCAAAGTGAAGCTTTGCAATGGCTCCTGACC 800
Tel4c CAAAGCCAACCGTAGGTAAGAGGCTGCAAGTGCATCGCAAAGGCTGTGAAGGAAGGACGCTGGGGCAAAGTGAAGCTTTGCAATGGCTCCTGACC 800
Tel4e CAAAGCCAACCGTAGGTAAGAGGCTGCAAGTGCATCGCAAAGGCTGTGAAGGAAGGACGCTGGGGCAAAGTGAAGCTTTGCAATGGCTCCTGACC 800

Tel4d CACTCGTTTACGGCAAAGCCCTTGGCGTGAACGGGTAAGTGAACAACCTCAGGCAGTAAACACCTGGTGTGGATGGGATAACCTGGTCCACACAAGAGC 900
Tel4a CACTCGTTTACGGCAAAGCCCTTGGCGTGAACGGGTAAGTGAACAACCTCAGGCAGTAAACACCTGGTGTGGATGGGATAACCTGGTCCACACAAGAGC 900
Tel4b CACTCGTTTACGGCAAAGCCCTCAGGCAGTAAACACCTCAGGCAGTAAACACCTGGTGTGGATGGGATAACCTGGTCCACACAAGAGC 900
Tel4c CACTCGTTTACGGCAAAGCCCTCAGGCAGTAAACACCTCAGGCAGTAAACACCTGGTGTGGATGGGATAACCTGGTCCACACAAGAGC 900
Tel4e CACTCGTTTACGGCAAAGCCCTCAGGCAGTAAACACCTCAGGCAGTAAACACCTGGTGTGGATGGGATAACCTGGTCCACACAAGAGC 900

Tel4d AGAAAACCAAGCCATAAAGTCCCTCAGGAGAAGAGGCTATAAGCCTCAACCCCTGAGGCGGGTATATATCCCGAAAGCAAAACAGCGCCCGCT 1000
Tel4a AGAAAACCAAGCCATAAAGTCCCTCAGGAGAAGAGGCTATAAGCCTCAACCCCTGAGGCGGGTATATATCCCGAAAGCAAAACAGCGCCCGCT 1000
Tel4b AGAAAACCAAGCCATAAAGTCCCTCAGGAGAAGAGGCTATAAACCCTCAACCCCTGAGGCGGGTATATATCCCGAAAGCAAAACAGCGCCCGCT 1000
Tel4c AGAAAACCAAGCCATAAAGTCCCTCAGGAGAAGAGGCTATAAACCCTCAACCCCTGAGGCGGGTATATATCCCGAAAGCAAAACAGCGCCCGCT 1000
Tel4e AGAAAACCAAGCCATAAAGTCCCTCAGGAGAAGAGGCTATAAACCCTCAACCCCTGAGGCGGGTATATATCCCGAAAGCAAAACAGCGCCCGCT 1000

Tel4d AGGAATCCCGACAATGAGGACAGGGCAATGCAGGCACTATATGCACTAGCCCTAGAACCAGTGCGGAAACACAGCGGACCGGAACTCCTATGGGTT 1100
Tel4a AGGAATCCCGACAATGAGGACAGGGCAATGCAGGCACTATATGCACTAGCCCTAGAACCAGTGCGGAAACACAGCGGACCGGAACTCCTATGGGTT 1100
Tel4b AGGAATCCCGACAATGAGGACAGGGCAATGCAGGCACTATATGCACTAGCCCTAGAACCAGTGCGGAAACACAGCGGACCGGAACTCCTATGGGTT 1100
Tel4c AGGAATCCCGACAATGAGGACAGGGCAATGCAGGCACTATATGCACTAGCCCTAGAACCAGTGCGGAAACACAGCGGACCGGAACTCCTATGGGTT 1100
Tel4e AGGAATCCCGACAATGAGGACAGGGCAATGCAGGCACTATATGCACTAGCCCTAGAACCAGTGCGGAAACACAGCGGACCGGAACTCCTATGGGTT 1100

Tel4d CGCCGAGGACGTAGCTGACGACCGCCGCGGCAATGCTTTAACAACCTAGCAAGGGCCGACAGCGCAACCTATGTTCCCGACGCTGATATCTCCGGAT 1200
Tel4a CGCCGAGGACGTATGACGACGATGCGGACAGGCAATGCTTTGCTTGGCAAGGCAAGTCCGCTGAACACGCTCTTGGCGCTGACATATCCGGAT 1200
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Tel4c CGCCGAGGACGTATGACGACGATGCGGACAGGCAATGCTTTGCTTGGCAAGGCAAGTCCGCTGAACACGCTCTTGGCGCTGACATATCCGGAT 1200
Tel4e CGCCGAGGACGTATGACGACGATGCGGACAGGCAATGCTTTGCTTGGCAAGGCAAGTCCGCTGAACACGCTCTTGGCGCTGACATATCCGGAT 1200

Tel4d GCTTTGACAATATCAGCCATGAGTGGCTACTAGCAAAATTTCCACTTGACAAGGAAATCTACGGAAAGTGGCTCAAATCGGGTTTGTCTGGAACAGCA 1300
Tel4a GCTTTGATAACATCAGCCATGAGTGGCTACTAGCAAACTCCACTGGCAAAGGGATCTTACGGAAATGGCTTAAATCTGGGTTCTGCTGGAACAGCA 1300
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Tel4c GCTTTGATAACATCAGCCATGAGTGGCTACTAGCAAACTCCACTGGCAAAGGGATCTTACGGAAATGGCTTAAATCTGGGTTCTGCTGGAACAGCA 1300
Tel4e GCTTTGATAACATCAGCCATGAGTGGCTACTAGCAAACTCCACTGGCAAAGGGATCTTACGGAAATGGCTTAAATCTGGGTTCTGCTGGAACAGCA 1300

Tel4d ACTCTTCCCACCCATGCTGGGACACCCAGGGAGGGTAATCTCCCAGTATTAGCAAACATGGCTCTGGATGGGATGGAAGACTACTGAATGAAGCA 1400
Tel4a ACTCTTCCCACCCATGCTGGGACACCTCAGGGAGGGTAATCTCCCAGTATTAGCAAACATGGCTCTGGATGGGATGGAAGACTGTTGGCC -AAACA 1399
Tel4b ACTCTTCCCACCCATGCTGGGACACCTCAGGGAGGGTAATCTCCCAGTATTAGCAAACATGGCTCTGGATGGGATGGAAGACTGTTGGCC -AAACA 1399
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Tel4e ACTCTTCCCACCCATGCTGGGACACCTCAGGGAGGGTAATCTCCCAGTATTAGCAAACATGGCTCTGGATGGGATGGAAGACTGTTGGCC -AAACA 1399

Tel4d CTTGAGAAAGCCAAAGTCCATCTCATAGATATGCAGACACTTTGTCGTAAACGGGACAGCAGGGAGACACTGTGTATTGGGCGCAATAATACAG 1500
Tel4a CCTCAGAGGTCAAAGTCAACCTCATCCGATATGCTGACGATTTTGTCTGACGGGAAAAGATGAGGAAACCTGGGAAAGCCAGAAACCTAATCCAG 1499
Tel4b CCTCAGAGGTCAAAGTCAACCTCATCCGATATGCTGACGATTTTGTCTGACGGGAAAAGATGAGGAAACCTGGGAAAGCCAGAAACCTAATCCAG 1499
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Tel4e CCTCAGAGGTCAAAGTCAACCTCATCCGATATGCTGACGATTTTGTCTGACGGGAAAAGATGAGGAAACCTGGGAAAGCCAGAAACCTAATCCAG 1499

Tel4d AAATTCCTCAAGAAAGGGGCTTACCTATCACCGGAAAGAGCAAAAAATCGTCCATATCGAAGAGGGTTGCACTTTCTCGGATGAAACATCCGCAAGT 1600
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Tel4c GAGTTCCTAAAAGAACGGGCTTGACCTGTCCCGGAGAAGCAAAAAATCGTCCATATGAGGAAGGCTTCGACTTTCTCGGATGGAACATTCGCAAGT 1599
Tel4e GAGTTCCTAAAAGAACGGGCTTGACCTGTCCCGGAGAAGCAAAAAATCGTCCATATGAGGAAGGCTTCGACTTTCTCGGATGGAACATTCGCAAGT 1599

Tel4d ACAAGGAACTCTCATCAAACTGCGGAAAGAAATATAAAGCGTTCGCCAAGAAAATCCGAGACACACTGAAGCAACTTACAACAGCAACCCAAGA 1700
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Tel4b ACAACGGGTTCTTCTCATCAAACTGCGGAAAGAAAGTAAAGCGTTCCTCAAGAAAATCCGAGACACTTAAGGAACTTAGGACAGCAACCCAGGA 1699
Tel4c ACAACGGGTTCTTCTCATCAAACTGCGGAAAGAAAGTAAAGCGTTCCTCAAGAAAATCCGAGACACTTAAGGAACTTAGGACAGCAACCCAGGA 1699
Tel4e ACAACGGGTTCTTCTCATCAAACTGCGGAAAGAAAGTAAAGCGTTCCTCAAGAAAATCCGAGACACTTAAGGAACTTAGGACAGCAACCCAGGA 1699

Tel4d AACTGTGATAGAGTGTCAACCAATATCAGGGATGGGCTAACTATCACAAGGCCAAGCATCCAAGAAAACCTTTGCCAAGTGGACCACTCATC 1800
Tel4a AATCGTATAGACACACTCAACCAATCATTAGAGGTTGGGCCAATATCACAAGGACAAGTCTCTAAGGAAACCTTCAACCGAGTGGACTTCGCCACC 1799
Tel4b AATCGTATAGACACACTCAACCAATCATTAGAGGTTGGGCCAATATCACAAGGACAAGTCTCTAAGGAAACCTTCAACCGAGTGGACTTCGCCACC 1799
Tel4c AATCGTATAGACACACTCAACCAATCATTAGAGGTTGGGCCAATATCACAAGGACAAGTCTCTAAGGAAACCTTCAACCGAGTGGACTTCGCCACC 1799
Tel4e AATCGTATAGACACACTCAACCAATCATTAGAGGTTGGGCCAATATCACAAGGACAAGTCTCTAAGGAAACCTTCAACCGAGTGGACTTCGCCACC 1799

Tel4d TGGCTAAACTATGGCGATGGGCAAGGCCGCCGCCACCAAAACAACTCCGATGGGTGAAAATAAATACATCATCCAAACCGGAAACAGAACTGGG 1900
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Tel4b TGGCACAAATTTGGCGATGGGCAAGGCCGCCGCCACCAAAACAACTCCGATGGGTGAAAATAAATACATCATCCAAACCGGAAACAGAACTGGG 1899
Tel4c TGGCACAAATTTGGCGATGGGCAAGGCCGCCGCCACCAAAACAACTCCGATGGGTGAAAATAAATACATCATCCAAACCGGAAACAGAACTGGG 1899
Tel4e TGGCACAAATTTGGCGATGGGCAAGGCCGCCGCCACCAAAACAACTCCGATGGGTGAAAATAAATACATCATCCAAACCGGAAACAGAACTGGG 1899

Tel4d GTTTCGGTATGCGGACGAAAGACAAGGATGGGAACCGTGGCTAAATACCTAACACAGCCTCTGACACCCGAATCGAGGCCACGTCAAATCAAGGC 2000
Tel4a GTTTCGGTATGCGGATGAAAGACAAGAACGGGAACTGAGGACCAACGCCTAATCAAAACCTCTGACACCCGAATCCAACGCCACGTCAAATCAAGGC 1999
Tel4b GTTTCGGTATGCGGATGAAAGACAAGAACGGGAACTGAGGACCAACGCCTAATCAAAACCTCTGACACCCGAATCCAACGCCACGTCAAATCAAGGC 1999
Tel4c GTTTCGGTATGCGGATGAAAGACAAGAACGGGAACTGAGGACCAACGCCTAATCAAAACCTCTGACACCCGAATCCAACGCCACGTCAAATCAAGGC 1999
Tel4e GTTTCGGTATGCGGATGAAAGACAAGAACGGGAACTGAGGACCAACGCCTAATCAAAACCTCTGACACCCGAATCCAACGCCACGTCAAATCAAGGC 1999

Tel4d AGACGCCAACCCGCTCTCCAGAAAGTGGACGGAATCTTTAGAAACGCAAGAACTCAAAGAAACCCCGCCCAATACCGGTACACCCGCCGAAACTA 2099
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Tel4b AGACGCCAATCCGTTTCTCCAGAGTGGGCGAATACTTTGAGAAACGCAAGAACTCAAAGAAACCCCGCCCAATACCGGTACACCCGCCGAAACTA 2099
Tel4c AGACGCCAATCCGTTTCTCCAGAGTGGGCGAATACTTTGAGAAACGCAAGAACTCAAAGAAACCCCGCCCAATACCGGTACACCCGCCGAAACTA 2099
Tel4e AGACGCCAATCCGTTTCTCCAGAGTGGGCGAATACTTTGAGAAACGCAAGAACTCAAAGAAACCCCGCCCAATACCGGTACACCCGCCGAAACTA 2099

Tel4d TGGGAAGACAAAATGGCACCTGCCAGTATGCGGGGAGAGATCGAACAAGCATCTTACGAAATCCACCACATCTGCCCAAAACACAAGGGCGGTT 2199
Tel4a TGGGAAGAACAGGGTGGTATCTGTCCAGTATGCGGGGTAAGAAATGAGCAAGACATGCTCACTGACATCCACCACATATTGCCCAAAACACAAGGGTGGTT 2199
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Tel4c TGGGAAGAACAGGGTGGTATCTGTCCAGTATGCGGGGTAAGAAATGAGCAAGACATGCTCACTGACATCCACCACATATTGCCCAAAACACAAGGGTGGTT 2199
Tel4e TGGGAAGAACAGGGTGGTATCTGTCCAGTATGCGGGGTAAGAAATGAGCAAGACATGCTCACTGACATCCACCACATATTGCCCAAAACACAAGGGTGGTT 2199

Tel4d CTGATGACCTGGCAACTTGTCTTAATCCACGCCAAGTCCCAAAACAGGTGCACAGCCAGCGGTGAGCAGCAGCCGGTTCCTCTTGAAGAGGGGCT 2299
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Tel4c CTGACGACCTGGATAATCTTGTCTTAATCCACGCCAAGTCCCAAAACAGGTGCACAGCCAGATGGTCAGCACAGCCGGTCCCTCTTGAAGAGGGGCT 2299
Tel4e CTGACGACCTGGATAATCTTGTCTTAATCCACGCCAAGTCCCAAAACAGGTGCACAGCCAGATGGTCAGCACAGCCGGTCCCTCTTGAAGAGGGGCT 2299

Tel4d TTGAGAGGCTTGGACGGGATGCGGGAAACTGGCAGTCCGGTCTTAGGGGGTAGGGGGCAGTAATGCCCCCTGCTACCCGCAC 2386
Tel4a TTGAGAGGCTGAGCCGGATGCTGGGAAACTAGCACGTCGGTCTTAGGGGGTAGGGGGCAGTAATGCCCCCT--GCTACCCGCAC 2384
Tel4b TTGAGAGGCTGAGCCGGATGCTGGGAAACTAGCACGTCGGTCTTAGGGGGTAGGGGGCAGTAATGCCCCCT--GCTACCCGCAC 2384
Tel4c TTGAGAGGCTGAGCCGGATGCTGGGAAACTAGCACGTCGGTCTTAGGGGGTAGGGGGCAGTAATGCCCCCT--GCTACCCGCAC 2384
Tel4e TTGAGAGGCTGAGCCGGATGCTGGGAAACTAGCACGTCGGTCTTAGGGGGTAGGGGGCAGTAATGCCCCCT--GCTACCCGCAC 2384
