ELF4 (NM_001421.4) - cDNA - 2026-05-17

```
ACTTCTCCTT TCGCCGGCGC CGAGTTCCTG GCGCCGCTCG CCCGGCCCGG -333
CTTCCGAGGG GAGAGGACGG GCTGGCGGGG CTGGGGACCC GCGTCTCGGC -283
CCCCGGAGCG GGGACCACGG AGACAGACCC CGGCCCGGCG ACCGAGCTGG -233
GCCCGTGAGC CACTCGGCCT CAGGTCGCTC CTGTGGTTGG TCCAGCCCAG -183
AATGCAGCCT TGAGCCTGGC TTAGGCCACC ACCTACTCCA GCTCTCTCCA -133
CCCCCTATTT TACTGCAGCT CAGGGGGTAG GCTCTAGGCT CCAAAGTACC -83
TGGGTATTGT CCCTTCATCA AGAAAGCCCC ACAGCTCTGG AGGGCTCTGA -33
TAATCCCGTT GTCAGCTCTC TGAAAAGACA GCATGGCTAT TACCCTACAG 18
CCCAGTGACC TGATCTTTGA GTTCGCAAGC AACGGGATGG ATGATGATAT 68
CCACCAGCTG GAAGACCCCT CTGTGTTCCC AGCTGTGATC GTGGAGCAGG 118  p.(Q39X)
TACCCTACCC TGATTTACTG CATCTGTACT CGGGACTGGA GTTGGACGAC 168
GTTCACAATG GCATCATAAC AGACGGGACC TTGTGCATGA CGCAGGATCA 218
GATCCTGGAA GGCAGTTTTT TGCTGACAGA TGACAATGAG GCCACCTCGC 268
ACACCATGTC AACCGCGGAA GTCTTACTCA ATATGGAGTC TCCCAGCGAT 318
ATCCTGGATG AGAAGCAGAT CTTCAGTACC TCCGAAATGC TTCCAGACTC 368  p.L108fs*3 p.E110Gfs*35
GGACCCTGCA CCAGCTGTCA CTCTGCCCAA CTACCTGTTT CCTGCCTCTG 418
AGCCCGATGC CCTGAACAGG GCGGGTGACA CTAGTGACCA GGAGGGGCAT 468  p.(G148Vfs*113) p.(H156Ifs*105)
TCTCTGGAGG AGAAGGCCTC CAGAGAGGAA AGTGCCAAGA AGACTGGGAA 518
ATCAAAGAAG AGAATCCGGA AGACCAAGGG CAACCGAAGT ACCTCACCTG 568  p.(R185X)
TCACTGACCC CAGCATCCCC ATTAGGAAGA AATCAAAGGA TGGCAAAGGC 618
AGCACCATCT ATCTGTGGGA GTTCCTCCTG GCTCTTCTGC AAGACAGAAA 668  p.(W212C)
CACCTGTCCC AAGTACATCA AGTGGACCCA GCGAGAGAAA GGCATCTTCA 718  p.I229V I229M p.W231R p.(R234X)
```

AACTGGTGGA CTCCAAAGCT GTGTCCAAGC TGTGGGGGAA GCAGAAAAAC 768 p.(S248F) p.W251S

AAGCCTGACA TGAACTATGA GACAATGGGG CGGGCACTAA GATACTACTA 818

CCAAAGAGGC ATACTGGCCA AAGTGGAAGG GCAGAGGCTG GTGTACCAGT 868

TTAAGGAGAT GCCCAAGGAC CTGGTGGTCA TTGAAGATGA GGATGAGAGC 918

AGCGAAGCCA CAGCAGCCCC ACCTCAGGCC TCCACGGCCT CTGTGGCCTC 968

TGCCAGTACC ACCCGGCGAA CCAGCTCCAG GGTCTCATCC AGATCTGCCC 1018 p.A339fs

CCCAGGGCAA GGGCAGCTCT TCTTGGGAGA AGCCAAAAAT TCAGCATGTC 1068

GGTCTCCAGC CATCTGCGAG TCTGGAATTG GGACCGTCGC TAGACGAGGA 1118

GATCCCCACT ACCTCCACCA TGCTCGTCTC TCCAGCAGAG GGCCAGGTCA 1168

AGCTCACCAA AGCTGTGAGT GCATCTTCAG TGCCCAGCAA CATCCACCTA 1218

GGAGTGGCCC CCGTGGGGTC GGGCTCGGCC CTGACCCTGC AGACGATCCC 1268

ACTGACCACG GTGCTGACCA ATGGGCCTCC TGCCAGTACT ACTGCTCCCA 1318

CTCAGCTCGT TCTCCAGAGT GTTCCAGCGG CCTCTACTTT CAAGGACACC 1368

TTCACTTTGC AGGCCTCTTT CCCCCTGAAC GCCAGTTTCC AAGACAGCCA 1418

GGTGGCAGCC CCAGGGGCTC CACTGATTCT CAGTGGCCTC CCCCAACTTC 1468

TGGCTGGGGC CAACCGTCCG ACCAACCCGG CGCCACCCAC GGTCACAGGG 1518

GCTGGACCAG CAGGGCCCAG CTCTCAGCCC CCTGGGACTG TCATTGCTGC 1568

CTTCATCAGG ACTTCTGGCA CTACAGCAGC CCCTAGGGTC AAGGAGGGGC 1618

CACTGAGGTC CTCCTCCTAT GTTCAGGGTA TGGTGACGGG GGCCCCCATG 1668

GAGGGGCTGC TGGTTCCTGA AGAGACCCTG AGGGAGCTCC TGAGAGATCA 1718

GGCTCATCTT CAGCCACTTC CAACCCAGGT GGTTTCCAGG GGTTCCCACA 1768

ATCCGAGCCT TCTGGGCAAC CAGACTTTGT CTCCTCCCAG CCGCCCCACT 1818

GTTGGGCTGA CCCCAGTGGC TGAACTTGAG CTCTCCTCAG GCTCAGGGTC 1868

CCTGCTGATG GCTGAGCCTA GTGTGACCAC ATCTGGGAGC CTTCTGACAA 1918

GATCCCCCAC CCCAGCCCCT TTCTCCCCAT TCAACCCTAC TTCCCTCATT 1968

AAGATGGAGC CCCATGACAT ATAAGCAAAG GGGTCAGGGC AAGTGTGACC *26

CACCAGGCAA AATTGAGCAG CATTTTCATA GGGACCGACT TCAGTAGCAC *76

ACCTGCCCCT GCATTTCAGT GGGATGTCAA TACACTTGAC CCCAAGTCCC *126

CCGGCCCTGC CTGGTGTCAC TGTGGCCAAA CAGTGCCCAG CTTAAGCATC *176

CCTGGCATCA GACTATGGCC TTCAAGAGCA CTAGGGCATA TGCTTTTGGC *226

AGCATAACGG GCTGACTTGG TGATGGAGGG AAAAAGCCTT GAGCCAGGCA *276

GAAGTTTGTG GCCAGGGTTT GTGCAGCAGC TTTGTGAGAA GAGCCCTTCT *326

ACCTGGCTCT ATCTCACTGG CTGCATTCCC TACACAGGGA ATTTACTACC *376

CTATATGTGA ATATCCCTGT ATGTACTTGT GTGTACTTGT TGGTCTGTAT *426

CTTAGTTTCT TTGGGGAGGA CAGGGCTGTA GCTGTGAGGT CTTGTCTCCA *476

AGGGTGTGTG TATGTCTCCG TGGATCAGCC ACAGGGATAG GGATTTTGTT *526

TTTAAGGGAA AGCATTCTCT AATTCCCTTT GTTCATGCCG AGATTCAGTT *576

GCTCTGAGAC TATGGGGTAC AAGTTTGATC CTCCGAATCT GGAGATGTTG *626

TAGAGCTGGA ACGAGTGCAG AGTAGGAACG CTTTGATGCG CATGCACATT *676

GGGGAAGATG CGCTCCTCAG GGACACAAAG GCCGAGTGGG GTAAAACCAC *726

GAAGGGAGGG AAGGGAAGTC AGCTCTGGGA GCAGCCCTCA CTGGCTGGAC *776

CAAGGTACTC TTCCTGGAGT TTGCCGTGTT AGCAACCACA GTCACCTTGC *826

AGTCAGGCTG GAATCTTGGG CCACCCCAAA GTGCTTTGCT GAAGGATTTA *876

GACGGGGATG AAGTGCCCTC CAGCCTCAGA GCTAGCCACA AAGCCCCCAG *926

AGCTGAATTC ATTGAGTATT TGTGCCTAGG GCTTGGGCTG TTTGTGTGAT *976

ACCGGCCCCC CGCCAGACAA TAGCCTTTGC TGACACCCCA GCCTACTTCC *1026

CCGATCCTGG GCTCCCTCTT GATTACTTTT TGACATTTTC CAGCTGTCAG *1076

GCATCACTGC GGCTAGTCCG GCAGCGACCT AGATGGGGTC CACCCCCATT *1126

CCTGCTCAAG CATGGGCACC TACCACATGG TTTCTGCTGC TCAGCCTGCC *1176

TGCAACTCAC CTCGAAGGCG GACCAGCCTG CCTCTGTGAT GACTGCAGCA *1226

GACCTCCTTG GGTGTACCAA TGCCCCTCAT CTCCCACTTT CACACCTAAC *1276

CCTGACTCCT TCACCAAGAA GACGGGAGTC GGCAGCCAGG AGTTCCCGTG *1326

GCACCTCTCT CTCTTCGTGG CTCCCTGCTT CCCCCTTCCC TCTTTCCGAG *1376

GAAGGGTCAA CCTATTCTCT CTCAAAGCCA ACCCCTAGGC CAATTGCCTG *1426

GATCTCCTCC CCTCTCCCTT CTTTAAACGA GCTTGCCTCC CTCCTGCCAA *1476

GTTTGAGGGC AAGGCTAAGA AATGTCAGCC ACGGAAACAA CTCTATTATC *1526

TGGTGACTTT GGGTAATGTG AATCAGTGCC TGAGGACCTT TGCTGTGTCC *1576

TTGGTACAGA ACCATCCACT TGACCTAACT ACCTCCCCTG GCCGCGCTCT *1626

CGCTCTTCTC TTCTTTGTTA AGCCAACAAC TATCACCCTC TCCTACTCTT *1676

CTTCTCCCTG CCCCCTGGAG GGCACTGTGT TTGGTTGTGC AAATGTATTT *1726

ACTATGCGTG TTTCCAGCAG TTGGCATTAA AGTGCCTTTT TCTAATAAAA *1776

TCAGTTTATT ATGACAGTTT CCTGATGGTT GAAAGTAAGC ATCTTGATAA *1826

AGGGTCACCA TTAAAAAAAA ATTTTGCATA AAGGTGCTGC ATGGGTTGGG *1876

GTAGCCCCGC CCCCACCTGA AAACTGGTTT CTGCCACCCC TACTCCAACT *1926

CCATGGAAAC TCATTGCTGG AAGGTCATCA ATGACCTCAT GGTGAAATCA *1976

AATGTCTTCT TCACAGTTCT CGGGCCCCCG TGAGCCCACA CTAGCTGGGC *2026

TCTCCTGCAT CCCCCATCAC CCTTTCCGGG GCTGGTTCTT CACCTACCAC *2076

TTCCAACGTG GCTGTTCAAG AATCTCATCC ATTTTGGGCT CATTTTGGCT *2126

CCTCGGAGAT GGGTCCTAAA TCTAGAGCTC CAGTCCCAAC CTTTCTCTTA *2176

AGCTCCTGGC TCACATTTCC AGCAATCTGC TGAACATTTC CATGTGGGTG *2226

CTTGTCAGCT CCTTAAAGAT AGCCCCTCTA TCAACAATGT TTTTGTTTGT *2276

TCGTTTGTTT TTGAGTCAGA GTCTTGCTCT GTCGGCTGGA GTGCAGTGGT *2326

GCAATCTCGG TTCACTGCAA CCTCTGCCTC CCAGGCTCAA GTGATTCTCC *2376

TGCCTCAGCC TCCTGAGTAG CTGGGAGTAC AGGCACATGC CACCATGCCC *2426

AGCTAATTTT TGTATTTTCA GTAGAGCCAG GGTTTCACCA TTTCGGCCAG *2476

GCTGGTCTCG AACTCCTGGC CTCAGGTGAT CCACCCACCT TGGCCTCCCA *2526

AAGTGCTGGG ATTACAGGCG TGAGCAACCA CGGCTGGCCA ACAATGGATT *2576

TTTAAATTAT TTCCACGCTC ACAAAAAACC TTTCCAAGAT GACGGGTTGA *2626

TGGGTGCAGC AAACCACCAT GGCACATGTA TACCTATGTA ACAAACCTGC *2676

ACGTTCTGCA CATGTATCCC AGAACTTAAA GTATAATAAT AATAATAATA *2726

ATAATAATAA TAATAATAAT AAAAATCAAG CAAACAAAAA

ELF4 (NM_001421.4) - cDNA - 2026-05-17