



LPIN2 (NM_014646.2) - cDNA - 2024-05-06

GAGAAGAAAGT GGCAGGTGAT GCTGAAGCGG GGGAGAAGCG GCAGAGCCGG -190
CCACACAGTG CAGGGGATGG AGACAGGTGC TGGGCTGGTC CTCCTGCAGC -140 c.-173A>T
ATCCTCAGTT GTTGGAGGGC AGTCATCCTC AGGCCGTACC CAGCCAGAGA -90
AGAAAAAGAA CAGTGTGAAG CCACGTGTGA TAGCCGTCCA ACATCGGCTC -40
TTCCCTCCAA TTACATTGTA GTTGATTGTG TCTCAAACCA **TGAATTATGT** 11
GGGACAGCTG GCTGGCAGG TGATTGTCAC TGTGAAGGAA CTCTACAAGG 61
GCATTAACCA GGCCACCCCTC TCTGGGTGCA TTGATGTCAT CGTGGTACAG 111
CAGCAGGATG GCAGCTATCA GTGTTCACCT TTTCACGTTC GGTTTGGAAA 161 Q44Hfs*13
GCTGGGAGTC CTGAGATCCA AAGAGAAAGT GATTGATATA GAAATCAACG 211
GCAGTGCAGT GGATCTTCAC ATGAAGTTGG GTGATAACGG AGAACGTTTC 261
TTTGTGAGG AGACTGAAGA AGAATATGAA AAGCTTCCTG CTTACCTTGC 311
CACCTCACCA ATTCTACTG AAGATCAGTT CTTAAAGAT ATTGACACCC 361
CTTTGGTGAA ATCGGGTGGA GATGAAACAC CATCTCAGAG TTCAGACATC 411
TCACACGTCT TGGAAACAGA GACAATTTT ACTCCAAGTT CTGTGAAAAA 461
GAAAAAAACGA AGGAGAAAGA AATACAAACA GGACAGTAAG AAGGAAGAGC 511
AGGCCGCATC TGCTGCTGCA GAAGACACA GTGATGTAAG CGTGAGCTCC 561 T180fs
GATGATGACA AGGGGGCCCA GGCAGCACGA GGATCTCAA ATGCTTCCTT 611
GAAAGAAGAA GAATGTAAAG AGCCTTGCT CTTCCATTCT GGGGATCATT 661
ACCCCTTATC TGATGGAGAT TGGTCCCCCT TAGAGACCAC CTATCCCCAG 711
ACAGCGTGTC CTAAGAGTGA TTCAGAGCTG GAGGTGAAAC CTGCGGAGAG 761
CCTGCTCAGA TCAGAGTCTC ACATGGAGTG GACGTGGGGC GGATTCCCAG 811
AGTCCACCAA GGTCAGCAAA AGAGAACGAT CTGACCATCA TCCTAGGACA 861 p.16kbdel

GCTACAATTAA CACCATCAGA AAATACTCAT TTTCGGGTAA TTCCCAGTGA 911 R299W
GGACAAACCTC ATCAGTGAAG TTGAGAAGGA TGCTTCATG GAAGACACTG 961
TCTGTACCAT AGTGAAGCCC AAACCCAGA CCCTGGGTAC ACAGATGAGC 1011 A331S
GACCCAACAT CTGTGGCAGA GCTTCTCGAA C CCTCCTTGT AGAGTACTCA 1061 P348L
GATTTCATCT ATGTTAGATG CTGACCACCT TCCCAACGCA GCCTTAGCGG 1111
AGGCGCCCTC AGAATCCAAA CCGGCAGCTA AAGTAGACTC GCCGTCAAAG 1161 K387E
AAGAAAGGTG TTCACAAAAG AAGCCAACAC CAGGGACCTG ATGATATTAA 1211
CCTTGATGAC TTAAAGGGTC TAGAACCTGA AGTTGCAGCT CTTTATTTC 1261
CTAAAAGTGA ATCGGAGCCC GTTCAGGC AGTGGCCCGA GTCTGACACA 1311 G428S
CTCTCTGGCT CCCAGTCCCC ACAGTCCGTG GGAAGCGCAG CTGCAGATAG 1361 p.Ser439Trpfs*15
CGGCACCGAG TGCCTCTCAG ATTCTGCCAT GGACTTGCCT GACGTTACCC 1411
TCTCCCTTTG CGGGGGCCTC AGTAAAAATG GAGAAATTTC AAAAGAAAAA 1461 E486Kfs*20
TTCATGGAGC ATATCATTAC TTATCACGAA TTTGCAGAAA ACCCTGGACT 1511 L504F
TATAGACAAT CCTAACCTTG TAATAAGGAT ATATAATCGT TACTATAACT 1561 R517H
GGGCTTTGGC AGCTCCATG ATCCTTAGCT TGCAAGTATT CCAGAAGAGC 1611
TTGCCTAAGG CCACAGTTGA GTCCTGGGTG AAAGACAAGA TGCAAAGAA 1661
ATCTGGTCGC TGGTGGTTTT GGCGAAAGAG AGAAAGCATG ACCAAACAGC 1711 R562Q R564Kfs*3 c.1691_1694delGAGA
TGCCAGAACAT CAAGGAGGGA AAACTGAGG CACGCCAGC CAGTGACCTG 1761 S579P
CCATCCAGCT CCAAGGAGCC GGCCGGTGCC AGGCCGGCCG AGAATGACTC 1811 G596S P599L E601K
CTCGAGTGAC GAGGGATCAC AGGAGCTGA AGAATCCATC ACAGTGGACC 1861
CCATCCCCAC AGAGCCCCTG AGCCACGGCA GCACAACCTC ATATAAGAAG 1911 P626S
TCTCTCCGCC TCTCCTCAGA CCAGATGCA AAACTGAAGC TCCACGATGG 1961 D644G G654D
CCCAAATGAT GTTGTGTTA GTATTACAAC CCAGTATCAA GGCACCTGTC 2011
GCTGTGCAGG GACCATTAC CTGTGGAACT GGAATGACAA GATCATCATT 2061 W681Gfs*14
TCTGATATTG ATGGGACAAT AACCAAGTCG GATGCTTGG GACAGATTCT 2111
CCCACAGCTG GGCAAAGACT GGACCCACCA GGGTATAGCA AAGCTCTACC 2161
ATTCCATCAA TGAGAATGGC TACAAGTTTC TGTACTGCTC GGCTCGTGCC 2211 Y732Stop S734L R736C R736H
ATCGGCATGG CCGACATGAC CCGTGGCTACT CGCACTGGG TCAATGACAA 2261 A741A Y747*

GGGCACAATC TTGCCCCGGG GCCCCCTGAT GCTGTCCCCC AGCAGCTTGT 2311
TCTCCGCCTT CCACAGAGAA GTGATAGAAA AGAAACCAGA GAAGTTCAAA 2361
ATTGAGTGTC TAAATGATAT CAAGAATCTG TTTGCCCGT CTAAGCAGCC 2411
CTTCTATGCT GCCTTGGAA ACCGTCCAAA TGATGTCTAT GCCTACACAC 2461
AAGTTGGAGT TCCAGACTGT AGAATATTCA CCGTGAACCC CAAGGGTGAA 2511 G823A
TTAATACAAG AAAGAACCAA AGGAAACAAG TCATCGTATC ACAGGCTGAG 2561
TGAGCTCGTG GAGCATGTGT TCCCCCTTCT CAGTAAGGAG CAGAATTCCG 2611
CTTTCCCTG CCCGGAGTTC AGCTCCTTCT GCTACTGGCG AGACCCGATC 2661 C874F P875P
CCTGAAGTGG ACCTGGATGA CCTGTCTTGA GGCGGCACCT CAGTGGGTGG *20 c.*3C>T
GCAGGGCTTG GTCCCCCTCC CCACAGCAAG GGAAGGCAGC TGGCTCTTCT *70
GCTGACCTCA GATACCAGCC TTCCCCAGCG GGGACGGGTG CTTCTGGAGC *120
TGGTCCCGCC ATCCTCCTT GCCTTCCCAG GCCAGCTGCT CAGGCTCGGC *170
AGGTCTGCAG CTCAGCTCCT GGAAGGAGAA GGGAGGAACG GGGCCTGGGG *220
CTGGAGGCCT GGGATCCCTC CTTGTGGGT CGCACACATG TTTCTGCTG *270
TGAGCTGGGG CCTCCTTCCA TTGCATCATT TTAAAGGAAG AAAAAAGCAG *320
CTAAAAAAAGA GTGGACCAAA ACACTGCACA CAGTGAAGTG TTCCAGTTTC *370
CACTGGGCAG TTGAGGTGGC TTCTGTAAAC AGGGCTGTCT TCAGATGTCA *420
GGGTCCCTGA ACTGCTGCGG GCCCAGTCAG TGATGCTGGC TGAAGCTGCC *470
TGTGCACGTT TCTTCCTCTGG TCGCCTCATT TCCTGCTACA CTGAAGGGGT *520
CAGCTGCTCC AGTGGGCCAA GTTGGGCAGG ACCCCCCGCC CTGCAGGGCC *570
CATGCACCAAG AGCCACTGAG CCCAGTCCCA TAAACCTGGC CCTCTTTGGG *620
GAAAGATCCC CACAGAGCAT CCTCCTCTCA TCTGTGACAA CTCCACGAGC *670
CCTTAATTC TTAGTCCTCA CCAGAAGAAC AGGTCTCACA AGTATATATT *720
TGATGTCTGT AATAAAAGTG GGAAGGTGGG TCTTAAACAA GACCAAACCC *770
CGCCCCGCC CCAACAACTC TGCTTTAGG GAGGCCTCCG AAATGCAGAT *820
AGGCGGTTGA GTGGGGTCCT GGGAAAGAGCG CTGAATCCCT CTGCTTGTG *870
CCTGGTGTGG GCCTTGGAA AGCATCTTGC CTTGGGACAG GATTCTAAA *920
ATTCTGTGAT TCAGATTGT CAGGGAAAGCA CAGTGAAGCT TGCTTAAAGG *970

CACTGGCCAG CAGTGTGTGA CTTGGCTTT TGGGATCACA CCCTGTAATC *1020
GGGCCCGTGG AAGCAGCGTC AAAGAGGGGT CTTGGAGCTC CTATGGAGCA *1070
GAUTGCCCTT CGAGCAGTGT CCCCAGCCTA GCCCTGTGAG ACCCCATGGG *1120
GACACGGGTG CCTATGTATT TTCACTAAAA TATACATGGT AGCTCCATT *1170
ACTGATGCGG TTGTAATGAG CTCACATCGT GTCTGAAGAG ATGGCACCAAG *1220
GGAAAGGTGT GCCATAAGCT GCTCCAGAGC TTTGGTATG CTGAGTGTG *1270
ACAGAGCTGC ACTCTTAACA TCAAGAGAAC TGTCAGGAGC CCAGAACCAA *1320
CCCCAGGTCT TGGTCTCCAT TGGCGAGAAC ACAGGACGTG GTGGTCTCGT *1370
AGCAGAGAGG GATCTGCAGA TACAGGCTTG GCGCTCGGGG TGGTCTCGT *1420
GCCAACTCTT CATGCCCTG CCGTTGTAGT GGAACCTCTA CATGTTTAG *1470
TTTGCTTCAC CTAAAATAAT GCTGATCTAG AGATAGAGAA ATAGGGTGG *1520
TTATTTTCC AGATTGGAGA GTTGAAGTC CCTGACTGAT TTCAGCCATT *1570
TTCCTAGTGC TTGTCGGATG CAGAGACAAT GTTGAAATCC CCTAAACACA *1620
GTTCTCAGTG GCAAAACCTA GGAAGGCTCA TGTTCCAGA GAAGGGACCA *1670
CATGAGCCTT CTCCCAGCAGA AAGCTCCCC CAGCTTAAAT AGTTGATAAG *1720
GACTAATTGT TTAATGAGTT TATTTATCTA CAGTAGGTTA GGGATCCTGG *1770
GTTCTGTTTA TATGAAGTTC TTCCCAGTT GTGAATTCTA GTACAGCAGC *1820
CATGCAGCCA CCTTATTTCA TAGATGCCAT CTGTGTGTCC TCTTGACTAC *1870
CTTCTATTTA GAGGAAGAAT GAGAGCTTG TGTGTTAAC TGAGCTTATA *1920
GTAGGACTTC TTTGCATATG TATGGTACTG AAAAATCTTA ATATACATCT *1970
TTAACCTTT TTAGGTTGTC CTTTAAAGAG TTTTGACTA GTTTCTTTT *2020
CTTGACAGCT CTTCTCTTTG GACACATGGG CCTTCTTAGA GGGTCAGTC *2070
TAGGACCCGG CTCTCCTGGC CCTGTGTGA GGGTAGCTGG TCCCTCTGTC *2120
CCTGTGTCTG CTAGCACTAG ACTTTGTTGC TGCAGATTGA TCCAGTGGGT *2170
ACATAGGCTA ATTAATGTGA GTCTTTTCC TTGTTAAAG GAGTCCCTCT *2220
TGCTGAAAGT AGATGATTAC TATTGCTGTA GTGTTAGGAA AGTATTAAGT *2270
TTGTGCTGAA AATCCATTGC CATTGGTAC AAATGACATT TGTTCTTCT *2320
TGAAAGAGA TGCCCTCGAG TGTGTTGTA CACAAACCCT TAGGATGGT *2370

AGTTGAAGCA TCACCCCTCGC GCTATCTTCAGTGACGGGTG ACGGCTCAGG *2420
GAGATGGCAG GCAGATTGGG CTCTAAGTCA TTATTCTCTC AGTTACTCCA *2470
TTGGTGAAAT GGCCCTTCC CTCTTGAGCAG TTCAGTCTAA GTCTCGTATT *2520
TGCTTTGCTG TCTGTGTGCT GAAGCTCGTC CCGTGTGAGT TGCTGTCTGC *2570
CCCTTGTCAAG CGTGTGAGGT GCTCGTGTAG ACCTGGAGCA TGCAGGCTGC *2620
CTCCGTTTTT GGGTACTGTG TTGTGTTTG CTCTGTCTAA AAACATCTGC *2670
ATAGTTTCA ACTGGAAAAA GAAAAAACTT AAAAATGGGA TGTCTAA *2720
TGAAAGCTGC TCAAAGTCAC AGAACAAACCG AGGGACAAAG GAGATTGGAT *2770
GACTGGGAAG CGCTGGCCCCG GAACAGCCCC TGCAACTGTG GGGCCTGCAC *2820
ACAGCCCTTC CACAGTTGGC ACTGCAGGTG CAGGCCAACCTTTAAAGAA *2870
TAAACAAGGA AGTCAGCTCT TTCACTTTT ACAAGTTGGC AAAAACAGAC *2920
TTCCGGGGAA TTTCGATGTT TTCCCGTGTGTT GTAGAGCTTC CAGGGTTAA *2970
TAAAACGTGGT TAAAAATTGA GTCTTCCCT GAAGTAAGTG CTCTTCCAG *3020
ATGAAAACATA CTCTTTGGT TTTGTTGAA AGTAAGAAAG GGAGGGAAA *3070
CTTGCTCTT TTAATAATTA TGTCAGCCT ATGATGAAGT ATTTGATTAT *3120
TAGACAGCAA TGTCACTAAT AAGTTTAAG TTGTCCAAAG TTAATTGTAA *3170
ACATCATCAG TACAGTACTC TTAGTTACAG TAAAGCAATT GTTGCAAGAT *3220
GAATGGCTAA TATTTGGTG CAGTGTGTTGA TGTTCAAAAC AAAATGTTAC *3270
AACAAATAAAC GAACATAACA TAAACTGAA

LPIN2 (NM_014646.2) - cDNA - 2024-05-06

