

Product datasheet for **SC308015**

Plectin (PLEC) (NM_201380) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Plectin (PLEC) (NM_201380) Human Untagged Clone
Tag:	Tag Free
Symbol:	Plectin
Synonyms:	EBS1; EBSMD; EBSND; EBSO; EBSOG; EBSPA; HD1; LGMD2Q; LGMDR17; PCN; PLEC1; PLEC1b; PLTN
Vector:	<u>pCMV6 series</u>

Fully Sequenced ORF: >NCBI ORF sequence for NM_201380, the custom clone sequence may differ by one or more nucleotides

```

ATGGTGGCCGGCATGCTCATGCCACGGGACCAGCTGCGGGCCATCTATGAGGTGCTCTTC
CGCGAGGGCGTGATGGTGGCCAAGAAGGACCGGGGCCCGCAGCTTGCACCCCATGTG
CCCGGCGTCACCAACCTGCAGGTCATGCGTGCCATGGCGTCCCTGCGGGCACGGGGCCTG
GTCCGCGAGACCTTTGCCTGGTGCCACTTTTACTGGTACCTCACCAATGAAGGCATCGCC
CACCTCCGCCAGTACCTGCACCTGCCGCCAGAGATCGTGCCCGCCTCTCTGCAGCGCGTG
CGCCGCCCGTCGCCATGGTGATGCCCGCACGCCGACCCCCACGTGCAGGCTGTGCAG
GGTCCCTGGGCTCCCCACCAAGCGGGGGCCGCTGCCGACGGAGGAGCAGCGGGTCTAC
CGTCGGAAGGAGCTTGAGGAGGTGTACCTGAGACCCCTGTGGTGCCTGCTACCACCCAG
CGGACCCTGGCCAGGCCAGGCCCGGAGCCTGCCCCAGCCACAGATGAGCGGGATCGTGTG
CAGAAGAAAACCTTACCAAGTGGGTCAACAAGCACCTCATCAAGGCCAGAGGCACATC
AGTGACCTGTATGAAGACCTCCGCGATGGCCACAACCTCATCTCCCTGCTGGAGGTCCCTC
TCGGGGGACAGCCTGCCCGGGAGAAGGGGAGGATGCGTTTCCACAAGCTGCAGAATGTC
CAGATTGCCCTGGACTACCTCCGGCACCGCCAGGTGAAGCTGGTGAACATCAGGAATGAT
GACATCGCTGACGGCAACCCCAAGCTGACCCTTGGCCTCATCTGGACAATCATTCTGCAC
TTCCAGATCTCAGATATCCAGGTGAGTGGGCAGTCGGAGGACATGACGGCCAAGGAGAAG
CTGCTGCTGTGGTCGCAGCGAATGGTGGAGGGTACCAGGGCCTGCGATGCGACAACCTC
ACCTCCAGCTGGAGAGACGGCCGCTCTTCAATGCCATCATCCACGGCAACAAGCCCTG
CTCATCGACATGAACAAGGTGTACCGGCAGACCAACCTGGAGAACCTGGACCAGGCCTTC
TCTGTGGCGGAGCGGGACCTGGGAGTGACGCGGCTCCTGGACCCTGAGGACGTGGATGTC
CCTCAGCCCGACGAGAAGTCCATCATCACCTACGTCTCGTGTATGACGCCATGCC
CGCGTGCCGGACGTGCAGGATGGGGTGAGGGCCAACGAGCTGCAGCTGCGCTGGCAGGAG
TACCGGGAGCTGGTGCTGCTGCTTCAAGTGGATGCGACACCACACGGCCGCTTTGAG
GAACGCAGGTTCCCTCCAGCTTCGAGGAGATTGAGATCCTGTGGTCTCAGTTCTTGAAG
TTTAAGGAGATGGAGCTACCAGCCAAGGAGGCCACAAGAACAGGTCCAAGGGCATCTAC
CAATCCCTGGAGGAGCGGTGCAAGCAGGCCAGCTCAAGGTGCCCTGGCTACCACCCG
CTGGATGTGGAGAAGGAGTGGGGCAAGCTGCACGTGGCCATCCTGGAGCGGGAGAAGCAG
CTCCCGCAGCGAGTTTGGAGGCTGGAGTGTCTTCAAGCGCATCGTGACCAAGCTGCAGATG
GAGGCGGGGCTGTGTGAGGAGCAGCTGAACCAGGCCGACGCCCTGCTGCAGTCGGATGTC

```



[View online >](#)

CGGCTGCTGGCTGCAGGCAAAGTGCCACAGCGGGCGGGGAGGTGGAACGGGACTTGGAC
 AAGGCGGATAGCATGATCCGGCTGCTCTTCAACGACGTGCAGACCCTCAAGGATGGACGG
 CACCCGACGGGCGAGCAGATGTACCGCAGGGTGTACCGTCTGCACGAGCGCCTGGTAGCC
 ATCCGCACCGAGTACAACCTACGGCTGAAGGCAGGCGTGGCGGCCCTGCAACCCAGGTG
 GCCCAGGTGACTCTGCAGAGTGTGCAGAGGCGCCCGAGCTGGAGGACTCCACTCTGCGC
 TACCTGCAGGACCTGCTGGCTGGGTGGAGGAGAACCAGCACCGTGTGGATGGCGCTGAG
 TGGGGTGTGGACCTGCCACGCGTGGAGGCGCAGCTGGGCAGCCACCGAGGCGCTGCACAG
 TCCATCGAAGAATTCCGGGCCAAGATCGAGCGGGCACGGAGTGACGAGGGCCAGCTCTCC
 CCCGCCACCCGGGTGCCTACCGTACTGCTGGGTGGGTGGACCTGCAGTACGCCAAG
 CTGCTGAACTCCTCCAAGGCCCGCTCAGGTCCCTGGAGAGCTTGACAGCTTTGTGGCA
 GCCGCCACTAAGGAGCTAATGTGGCTGAATGAGAAGGAGGAGGAGGAGGTGGGCTTCGAC
 TGGAGCGACCGCAACACCAACATGACCGCCAAGAAGGAGAGCTACTCGGCGCTGATGCGG
 GAGCTGGAGCTGAAGGAGAAGAAGATCAAGGAGCTCCAAAATGCTGGGGACCGGCTGCTG
 CGGGAGGACCACCCGGCCCGGCCACGGTGGAGTCTTCCAGGCGGCCCTGCAGACGCGAG
 TGGAGCTGGATGTACAGCTGTGTGCTGTATCGAGGCACACCTGAAGGAGAACGCTGCC
 TACTTTAGTTCTTCTCAGATGTGCGGGAGGCCGAGGGGAGTTGCAGAAGCTGCAGGAG
 GCACTGCGTAGGAAATACAGTTGTGATCGCTCCGCCACCGTCACCCGGCTGGAGGACCTG
 CTGCAGGATGCCAGGACGAGAAGGAACAGCTGAACGAGTACAAGGGCCACCTCTCAGGC
 CTGGCCAAGCGGGCCAAGGCCGTGCTGCAGCTGAAGCCCCGCCACCCAGCCCACCCCATG
 CGGGGCCCGCTGCCCTGCTGGCCGTGTGCGACTATAAGCAGGTGGAGGTGACTGTGCAC
 AAGGGTACGAGTGCCAGCTGGTGGGCCCTGCACAGCCGTCCACTGGAAGGTGCTCAGC
 AGCTCCGGCAGCGAGGCCCGCTGCCCTCCGTGTGCTTCTGGTGGCCCCGCCAACCAG
 GAGGCCACAGGAGCCGTACCAGGCTGGAGGCCACGACCCAGGCGCTGGTCAAGCTGTGG
 CACCAGTTGCACGTGGACATGAAGAGCCTTCTGGCCTGGCAGAGCCTTCGCCGCGAGTG
 CAGCTCATCCGCTCCTGGTCCCTGGCCACGTTCCGCACCCCTGAAGCCAGAGGAGCAGCGC
 CAAGCCCTGCACAGCCTGGAGCTGCACTACCAGGCCTTCTGCGGGACAGCCAGGACGCG
 GCGGGCTTCGGACCCGAGGACCGGCTGATGGCTGAGCGGAGTACGGCTCCTGCAGCCAC
 CACTACCAGCAGCTGCTGCAGAGCCTGGAACAGGGTGCACAGGAAGAGTCTCGTGCCAG
 CGTGTCATCTCCGAGCTCAAAGACATCCGGCTGCAGCTGGAGGCCTGTGAGACGCGCACC
 GTGACCCGCTGCGGCTGCCGCTGGACAAAGAGCCGGCACGGGAGTGTGCCACGCGCATC
 GCCGAGCAGCAGAAGGCACAGGCAGAGGTGGAGGGGCTGGGCAAGGGGTCGCCGGCTC
 TCTGCCGAGGCCGAGAAGGTCTTGGCCCTACCAGAGCCATCGCCTGCGGGCCCCACGCTG
 CGCTCGGAGCTGGAGCTGACGCTGGGCAAGCTGGAGCAGGTCCGACGCTGTCTGCCATC
 TACCTGGAGAAGCTCAAGACCATCAGCCTGGTGTATCCGCGGCACGAGGGGGCCGAGGAG
 GTGCTCAGGGCCACGAGGAGCAGCTCAAGGAGGCCAGGCCGTGCCGGCCACCTCCCG
 GAGCTCGAGGCCACCAAGGCCTCTCTGAAGAAGCTGCGGGCCAGGCCGAGGCACAGCAG
 CCCAGTTCGACGCCCTGCGGGATGAGCTGCGGGGGCACAGGAGGTGGGGGAGCGACTG
 CAGCAGCGGCACGGGGAGCGGGACGTGGAGGTGGAGCGCTGGCGGGAGCGGGTCGCCAG
 TTGCTTGAGCGCTGGCAGGCTGTGCTGGCCAGACCGACGTGCGGCAGCGCGAGCTCGAG
 CAACTGGGCCGCGCAGCTGCGTTACTACCGGAGAGTGCAGACCCTTGGGCGCCTGGCTG
 CAGGACGCCAGGCGGGCAGGAGCAGATCCAGGCCATGCCGCTGGCCGACAGCCAGGCT
 GTGCGGGAGCAGCTGCGGCAGGAGCAGGCCCTGCTGGAGGAGATCGAGCGCCACGGCGAG
 AAGGTCGAGGAGTGCCAGAGTTTGCGAAACAGTACATCAACGCCATCAAGGACTATGAA
 CTCCAGCTGGTGACGTACAAGGCGCAGCTTGGCCGGTGGCTCCCGGCCAAGAAGCCC
 AAGGTCAGTCCGGATCAGAGAGTGTATCCAGGAGTACGTGGACCTGCGTACGCACTAC
 AGCGAGCTGACCACACTGACGAGCCAGTACATCAAGTTTATCAGCGAGACTCTGCGGGC
 ATGGAGGAGGAGGAGGCTGGCTGAGCAGCAGCGGGCAGAGGAGCGGAGCGGCTGGCC
 GAGGTGGAGGCCGCGCTGGAGAAGCAGCGCAGCTGGCCGAGGCCACGCCAGGCAAAG
 GCACAGGCGGAGCGGGAGGCGAAGGAGCTGCAGCAGCGCATGCAGGAGGAGGTGGTGGCG
 CGGGAGGAGGCGGGTGGACGCGCAGCAGCAGAAGCGCAGCATTAGGAGGAGCTGCAG
 CAGCTGCGGCAGAGCTCGGAGGCGGAGATCCAGGCCAAGGCCCGGAGGCGAGGCGGCT
 GAGCGCAGCCGGCTGCGCATCGAGGAGGAGATCCGCGTGGTGGCCTGCAGTTGGAGGCC

ACCGAGGCCAGCGTGGCGGGGCTGAGGGGAGCTGCAGGCACTGCGTGCACGGGCGGAG
 GAGGCTGAGGCACAAAAGCGACAGGCGCAGGAGGAGGCCGAGCGCTTGGCGGAGGCAGGTG
 CAGGACGAGAGCCAGCGTAAGCGGCAGGCGGAGGTGGAGCTGGCCTCGCGCGTGAAGGCC
 GAGGCCGAGGGCGCGCGGAGAAGCAGCGGGCCCTGCAGGCCCTGGAGGAGCTGCGGCTG
 CAGGCGGAGGAGGCGGAGCGCGCCTGCGGCAGGCCGAGGTGGAGCGAGCGCGCAGGTA
 CAGGTGGCCCTGGAGACGGCGCAGCGCAGTGCAGAGGCGGAGCTGCAGAGCAAACCGGCC
 TCCTTCGCGGAGAAGACGGCACAGCTGGAGCGCTCCCTGCAGGAGGAACACGTGGCTGTG
 GCACAGCTGCGGAGGAGGCTGAGCGGGCGCACAGCAGCAGGCCGAGGCCGAGCGGGCG
 CGCGAGGAGGCAGAGCGGAGCTGGAGCGCTGGCAGCTCAAGGCCAACGAGGCGTACGG
 CTGCGGCTGCAGGCGGAGGAGGTGGCGCAGCAGAAGAGCCTGGCGCAGGCCGAGGCTGAG
 AAGCAGAAGGAGGAGGCCGAGCGCAGGCGCGCGCGGCAAGGCGGAGGAGCAGGCC
 GTCCGGCAGCGGAGCTGGCTGAACAAGAGCTGGAGAAGCAGCGCAGCTGGCGGAAGGC
 ACCCGCAGCAGCGCCTGGCCGCGGAGCAGGAGTTGATCCGGCTGCGGGCCGAGACGGAG
 CAGGGGAGCAGCAGCGCAGCTGCTGGAGGAGGAGCTGGCCCGCTGCACCGTGAAGCG
 GCTGCAGCCACGCAAAACGGCAGGAGCTGGAAGCCGAGCTGGCCAAGGTGCGGGCCGAG
 ATGGAGGTGCTGCTGGCCAGCAAGGCGAGGCTGAGGAGGAGTCCGCTCCACCAGCGAG
 AAGTCAAAGCAGAGGCTGGAGGCCGAGGCCGCGGTTCCGCGAGCTGGCCGAGGAGGCC
 GCCCGCTGCGTGCCCTGGCGGAAGAGGCCAAGCGGCAGCGCAGCTGGCCGAGGAAGAC
 GCGGCGCGGCGAGCGGCCGAGGCCGAGCGGGTGTTCGCGAGAAGCTGGCCGCCATCGGC
 GAGGCCACGCGGCTCAAGACGGAGGCGGAGATCGCGCTCAAGGAGAAGGAGGCGGAGA
 GAGCGCTGCGGGCGCTGGCGGAGGACGAGGCCCTCCAGCGCGCGGCTGGAGGAGCAG
 GCCCGCAACACAAGGCTGACATCGAGGAGCGCCTGGCCAGCTGCGCAAGGCATCGGAC
 AGCGAGCTGGAGCGGAGAAAGGGCTGGTGGAGGACACGCTGAGGCAGCGCGCGCAGTG
 GAGGAGGAGATCCTGGCGCTGAAGGCGAGCTTCGAGAAGCGCGCGCTGGCAAGGCGGAG
 CTGGAGCTGGAGCTGGGACGCATCCGCAGCAACCGGAGGACACGCTGCGCAGCAAGGAG
 CAGGCCGAGCTGGAGGCTGCGAGGCAGCGCAGCTGGCGCGGAGGAGGAGCGCGGCGC
 CGTGAGGCTGAGGAGCGCTGCAGAAGAGCCTGGCGGCCGAGGAGGAGGCCGACGGCAG
 CGGAAGGCGGCGCTGGAGGAAGTCGAGCGGCTGAAAGCCAAGGTGGAGGAGGCGCGGCG
 CTGCGGGAGCGGAGCGGAGCAGGAGTCGGCGCGCAGCTGCAGCTGGCCAGGAGGCCGCG
 CAGAAGCGGCTGCAGGCGGAAGAGAAGGCACACGCTTCGCGGTGCAGCAGAAGGAGCAG
 GAGCTACAGCAGACGCTGCAGCAGGAGCAGAGCGTGTGGACCAGCTGCGCGGCGAGGCC
 GAGGCGGCCCGCGGGCGGCTGAGGAGGCGGAGGAGGCCCGGCTGCAAGCGGAGCGTGAG
 GCGGCGCAGTCCCGCGGCGAGGTGGAAGAGGCCGAGCGGCTGAAGCAGTGGCAGAGGAG
 CAGGCACAGGCCCGGCTCAGGCACAGGCGGCTGCAGAGAAGCTGCGCAAGGAGGCCGAG
 CAAGAGGCGGCGCGGCGGCGCACAGGCGGAGCAGGCGGCCCTGCGGAGAAAGCAGGAGCT
 GACGCGGAGATGGAGAAGCATAAGAAATTCGCGGAGCAGACGCTGCGGCAGAAAGGCGCAG
 GTGGAGCAGGAGCTGACAACACTGCGGCTGCAGCTGGAGGAGACCGACCACAGAAAGAAC
 CTGCTGGACGAGGAGCTGCAGCGGCTGAAGGCGGAGGCCACGGAGGCCGACGCCAGCGC
 AGCCAGGTGGAGGAGGAGCTTCTCGGTGCGCGTGCAGATGGAGGAGCTGAGCAAGCTC
 AAGGCACGCATCGAGGCTGAGAACCAGCGACTCATCTTTCGCTGACAAGGACAATACGCAG
 CGTTCCTGCAGGAGGAGGCTGAGAAGATGAAGCAGGTGGCGGAGGAGGCCGCGCGGCTG
 AGTGTGGCGGCCAAGAGGCTGCGGACTGCGGCAGCTGGCAGAGGAGGACCTGGCACAG
 CAGCGGCCCTTGGCAGAGAAGATGCTCAAGGAGAAGATGCAGGCGGTGCAGGAGGCCACG
 CGACTCAAGGCTGAGGCGGAAGTCTGCAGCAGCAGAAGGAGCTTGGCAGGAGCAGGCC
 CGGCGGCTGCAGGAGGACAAGGAGCAGATGGCGCAGCAGCTGGCGGAGGAGACGCGAGGC
 TTCCAGCGGACGCTGGAGGCCGAGCGGCGCAGCGCAGCTGGAGATGAGCGTGAAGGCTGAG
 CGCTCAAGCTGCGTGTGGCCGAGATGAGCCGAGCCAGGCCCGCTGAGGAGGAGGCC
 CAGCGCTTCCGGAAGCAGGCGGAGGAGATCGGTGAGAAGCTGCACCGCAGGAGCTCGCC
 ACCCAGGAGAAGGTGACCCTGGTGCAGCACTGGAGATCCAGCGACAGCAGAGTGACCAT
 GATGCCGAGCGCTGCGGGAGGCCATCGCTGAGCTGGAGCGTGAAGGAGAAGCTCCAA
 CAGGAGGCCAAACTGCTGCAGCTCAAGTCTGAGGAGATGCAGACGGTGCAGCAGGAGCAG
 CTGCTGCAGGAGACGCGAGGCCCTGCAGCAAAGCTTCTCTGAAAAGGACAGCCTGCTA

CAGCGGGAGCGCTTCATCGAGCAGGAGAAGGCCAAGCTGGAGCAGCTCTCCAGGACGAG
 GTGGCCAAAGGCACAGCAGCTGCGTGAGGAGCAGCAGCGGCAGCAGCAGATGGAGCAG
 GAACGGCAGCGGCTGGTGGCCAGCATGGAGGAGGCGGGCGGCAGCATGAGGCCGAG
 GAGGGCGTGCGGCGCAAGCAGGAGGAGCTGCAGCAGCTGGAGCAGCAGCGGCGGCAGCAG
 GAGGAGCTGTGGCTGAGGAGAACCAGAGGCTGCGTGAGCAGCTGCAGCTCCTGGAGGAG
 CAGCACCGGGCCGCTGGCGCACTCAGAGGAGTCACTGCCTCGCAGGTGGCTGCCACA
 AAGACCCTGCCAATGGCCGGGATGCACTTGATGGCCCCGCGGCAGAGGCAGAGCCGGAG
 CACAGCTTCGATGGCTGCGGCGGAAGGTGTAGCTCAGAGGCTGCAGGAGGCCGCGCATC
 CTGAGTGCGGAGGAGCTGCAGCGGTTGGCGCAGGGCCACACCACGGTGGACGAGCTCGCA
 CGGCGGGAAGACGTGCGCCACTACCTGCAGGGCCGAGCAGTATCGCAGGGCTGTTGCTG
 AAGGCCACCAATGAGAAGCTGAGTGTTCACGCCCTGCAGAGGCAGCTGCTGAGTCCC
 GGCACGGCCCTCATCCTGCTGGAGGCGCAGGCGGCTCAGGCTTCTGCTGGACCCTGTG
 CGGAACCGGCGGCTGACCGTCAACGAGGCTGTGAAGGAGGTGTGGTGGGCCCGAGCTG
 CACCACAAGCTGTGTGCGCCGAGCGCGCTCACTGGCTACAAGGACCCCTACACTGGC
 CAGCAGATCTCTCTTCCAAGCCATGCAGAAGGGCTCATCGTCCGGGAGCAGCGCATC
 CGCTGTGGAGGCCAGATCGCCACGGGCGGCTTATCGACCCCGTGCACAGCCACCGC
 GTGCCCGTGGACGTGGCCTACCGGCGGCTACTTCGACGAGGAGATGAACCGGCTCCTG
 GCGGACCCAGCGACGACACCAAGGGCTTCTTTGACCCAAACACGCACGAGAACCCTCAG
 TACCTGCAGTACTGGAGCGTGCCTGGAGGACCCCGAGACGGGCTGTGCCTTCTGCCA
 CTCACGGATAAAGGCTGCCAAGGGCGGGAGCTGGTCTACACTGACTCCGAGGCCCGGAC
 GTCTTTGAGAAGGCCACCGTGTCTGCGCGTTCGCAAGTTCAGGGCAAGACGGTGACC
 ATTTGGGAGATCATCAACTCGGAATACTCACGGCAGAGCAGCGGCGGGACCTGCTGCGG
 CAGTTCGCGACGGGCGGATCACAGTGGAGAAGATCATCAAGATCATCATCAGGTGGTG
 GAGGAGCAGGAGCAGAAGGGCCGCTTTGCTTTGAGGGCTGCGCAGCCTGGTGCCAGCC
 GCCGAGCTGTGGAGAGCAGGTCATCGACCGGAGCTTACCAGCAGCTGCAGCGAGGT
 GAGCGCTCTGTGCGAGACGTAGCCGAGGTGGACTGTGCGGCGGCTCTCCGGGTGCC
 AACGTCATCGCGGTGTATGGCTGGAGGAGGCGGGCAGAAGCTGAGTATCTACAATGCC
 CTGAAGAAAGACCTGCTGCCATCCGACATGGCCGTGGCCCTGTTGGAAGCCAGGCCGGC
 ACCGGGCACATCATCGACCCCGCCACCAGCGCCCGCTGACCGTGGACGAGGCAGTGCCT
 GCTGGCCTGGTGGGCCCGAGTTTCATGAGAAGCTGCTATCAGCCGAGAAGGCTGTGACA
 GGGTACAGGGACCCCTACACAGGGCAGAGCGTCTCCCTGTTCCAGGCCCTGAAGAAGGGC
 CTATTCCCCGGGAGCAGGGCCTGCGCCTGTTGGACGCCAGCTGTCCAGGGCGGCATC
 GTGGACCCAGCAAGAGCCACCGCTGCCCTGGATGTGCGCTGCGCCCGAGGCTGCCTG
 GATGAGGAGACCAGCAGGGCCCTGTGCGCACCAAGGGCCGACGCCAAGGCCTACAGTGAC
 CCCAGCACAGGGGAGCCGGCCACCTACGGCGAGCTCCAGCAGCGGTGCCGGCCGACAG
 CTGACCGGGCTGAGCCTGCTGCCCTCTCAGAAAAGGCTGCTCGGGCCCGGCAGGAGGAG
 CTCTACTCAGAGCTGCAGGCCGTGAGACCTTTGAAAAGACCCCGGTTGAGGTCCCCGTG
 GGTGGCTTCAAGGGCAGGACGGTGACGGTGTGGAGCTCATCAGCTCTGAGTACTTCACT
 GCGGAGCAGCGCAGGAGCTGTTGCGTCAGTTCGCGCAGGGCAAGGTACCGTGGAGAAG
 GTCATCAAGATTCTCATTACCATCGTGGAGGAGGTGGAGACCCTGCGGCAGGAGAGGCTG
 TCCTTCAGCGGCTCCGTGCCCTGTGCCAGCCAGCGAGCTCCTGGCTTCCGGGGTCCCTC
 AGCAGAGCCAGTTTGGCAGCTCAAGGACGGCAAGACGACGGTCAAGGACCTTTCGGAG
 CTGGGCTCCGTGCGGACGCTGCTGCAGGGCAGTGGCTGCCTCGCCGGCATCTACCTGGAG
 GACACCAAGGAGAAGGTGCCATCTACGAGGCCATGCGCCGGGGCTGCTGAGAGCCACA
 ACGGCTGCGCTCCTGCTGGAGGCGCAGGCGGCCACTGGCTTCTGGTGGACCCCGTGGG
 AACCAGCGCTGTATGTCCACGAGGCCGTGAAGGCGGGCGTGGTGGGCCCGAGCTTAC
 GAGCAGCTGCTGTGCTGCCGAGAAGGCCGTACCGGCTACAGAGACCCCTACTCGGGCAGC
 ACCATCTCCCTTCCAGGCCATGCAGAAGGGCTGGTTCTCCGGCAGCAGGCATCCGC
 CTGCTGGAGGCCAGATCGCCACGGGCGCATCATCGACCCCGTGCACAGCCACCGCGTG
 CCTGTGGACGTGGCTACCAGCGCGGCTACTTCAGTGAGGAGATGAACCGGCTCCTGGCG
 GACCCAGCGACGACACCAAGGGCTTCTTTGACCCCAACAGCATGAGAACCCTACGTAC
 AGGCAGCTGTGGAGCGGTGCGTGGAGGACCCCGAGACGGGCTTGGCGCTTCTGCCACTG

AAAGGGGCGGAGAAGGCTGAGGTGGTGGAGACCACGCAGGTGTACACTGAGGAGGAGACA
 AGAAGGGCATTGAAAGAGACACAGATCGACATCCCGGCGGCGGCAGCCACGGCGGCTCC
 ACCATGTCCCTGTGGGAGGTGATGCAGTCGGACCTGATCCCCGAGGAGCAGCGGGCCAG
 CTGATGGCTGACTTCCAGGCCGGCCGGTGACCAAGGAACGCATGATCATCATCATC
 GAGATCATTGAGAAGACAGAGATCATCCGCCAGCAGGGTCTGGCCTCCTACGACTACGTG
 CGCCGCCCTCACGGCTGAGGACCTGTTCCGAGGCTCGGATCATCTCTCGAGACCTAC
 AACCTGCTCCGGGAGGGCACACGAGGCTCCGTGAGGCTCTCGAGGCGGAGTCCGCCTGG
 TGCTACCTCTATGGCACGGGCTCCGTGGCTGGTGTCTACCTGCCCGTTCCAGGCAGACA
 CTGAGCATCTACCAGGCTCTCAAGAAAGGGCTGCTGAGTGCCGAGGTGGCCCGCCTGCTG
 CTGGAGGCACAGGCAGCCACAGGCTTCTGCTGGACCCGGTGAAGGGGAGCGGCTGACT
 GTGGATGAGGCTGTGCGGAAGGGCTCGTGGGGCCGAGCTGCACGACCCCTGCTCTCG
 GCTGAGCGGGCGGTACCCGGTACCGTGACCCCTACACCGAGCAGACCATCTCGCTTTC
 CAGGCCATGAAGAAGGAGCTGATCCCTACTGAGGAGGCCCTGCGGCTGCTGGATGCCAG
 CTGGCCACCGGCGCATCGTGGACCCCGCTGGGCTTCCACCTTCCCCTGGAGGTGGCT
 TACCAGCTGGTACCTCAACAAGGACACGCACGACCAGCTGTACAGGCCAGCGAGGTG
 CGCAGCTACGTGGACCCGTCCACCGACGAGCGCCTCAGCTACACGCAGCTGCTCAGGCGG
 TGCCGTGCTGACGACGGCACCGGCCAGCTGCTCCTGCCACTGTCCGACGCCCGCAAGCTG
 ACCTTCCGTGGCCTGCGGAAGCAGATCACCATGGAGGAGCTGGTGCCTCGCAGGTGATG
 GACGAGGCCACGGCGCTGACGCTGCGGGAGGGCTGACCTCCATCGAGGAGGTACCAAG
 AACTTGCAGAAGTTCTTGAAGGCACAGCTGCATCGTGGTGTCTTCTGGACGCCACC
 AAGGAACGGCTCTCGGTGTACCAGGCCATGAAGAAGGGCATATCCGCCCGGCACAGCC
 TTTGAGCTCCTGGAGGCGCAGGCGGCCACCGGTTACGTCATCGACCCCATCAAGGGACTG
 AAGCTGACGGTGGAGGAGGCTGTGCGTATGGGCATTGTGGGCCCGAGTCAAGGACAAG
 CTGCTGTCCGCCGAGCGGCCGTCACTGGGTACAAGGACCCCTACTCTGGGAAGCTCATC
 TCCTTCTCCAGGCCATGAAGAAGGGCCTGATCCTGAAGGACCATGGCATCCGCCTGCTG
 GAGGCCAGATCGCCACGGGCGGCATCATCGACCTGAGGAGAGCCACCGGCTGCCCGTG
 GAGGTGGCTACAAGCGCGGCTTTCGATGAGGAGATGAACGAGATCCTGACCGACCCC
 TCGGACGACACCAAGGGCTTCTTTGACCCTAACACGGAGGAGAACCTCACCTACCTGCAG
 CTGATGGAGCGTGTATCACTGACCCCGACGCGGCTGTGTCTTGGCCGCTGAAGGAG
 AAGAAGCGGGAGCGGAAGACGTCTCCAAGTCTCCGTGCGCAAGCGCCGAGTGGTCATC
 GTGGACCCGAGACGGGCAAGGAGATGTCAGTGTACGAGGCTACCGCAAGGGCCTGATT
 GACCACAGACGTACCTGGAGCTGTCCGAGCAGGAGTGGAGTGGGAGGAGATCACCATC
 TCCTCCTCGGACGGCGTGGTCAAGTCCATGATCATCGACCGCCGCTCCGGGCGCCAGTAC
 GACATCGATGATGCCATCGCAAGAACCTCATCGACCGCTCGGCACTGGACCAAGTACCGC
 GCCGGCACGCTCTCCATACCGAGTTCGCCGACATGCTCTCGGGCAACCGCGGTGGTTTC
 CGCTCCGTTCTCCTCGGTGGGATCCTCCTCCTCCTACCCCATCAGCCCCGCGCTCC
 AGGACCCAGCTGGCCTCCTGGTCAAGCCCACTGAGGAGACGGGCCCCGTGGCTGGC
 ATCAACATCACGGGGCAGCGGCTGCTGGAGGCGCAGGCTGCACCGGGGGCATCATCGAG
 CCCAGCACCGGTGAGCGCTTCCCTGTACCGACGCGGTCAACAAGGGCCTGGTGGACAAG
 ATCATGGTGGACCGCATCAACCTGGCCAGAAAGCCTTCTGCGGTTTCGAGGACCCACGC
 ACCAAGACCAAGATGTCGGCCGCCAGGCCCTGAAGAAGGGCTGGCTCTACTACGAGGCC
 GGCCAGCGCTTCTGGAGGTGCAGTACCTGACCGCGGCTTGTATCGAGCCCGACACGCCG
 GGCCCGTGGCCCTGGACGAGGCCCTGCAGCGCGGACCGTGGACGCCCGCACCGCACAG
 AAGCTGCGTGACGTGGGCGCTACTCCAAGTACCTCACCTGCCCTAAGACCAAGCTCAAG
 ATCTCCTATAAGGACGCGCTGGACCGCAGCATGGTGGAGGAGGGCACGGGCTGCGGCTG
 CTGGAGGCTGCCGCGAGTCCACCAAGGGCTACTACAGCCCTACAGCGTACGCGCTCC
 GGCTCTACCGCTGGCTCCCGACCGGCTCGCGACCGGCTCCCGGCGGCTCCCGCCG
 GGACGTTTACGCCACCGGCTCCGGCTTCTCCATGACCTTCTTTCATCCTCCTACTCC
 TCCTCGGGCTACGGCCCGGCTACGCCTCGGGTCTCGGCTCCTGGGGGCCCCCTGAG
 TCTGCCGTGGCCTGA

Restriction Sites:	Please inquire
ACCN:	NM_201380
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).</p>
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none"> 1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	<u>NM_201380.2</u> , <u>NP_958782.1</u>
RefSeq Size:	15249 bp
RefSeq ORF:	14055 bp
Locus ID:	5339
UniProt ID:	<u>Q15149</u>
Cytogenetics:	8q24.3
Protein Families:	Druggable Genome

Gene Summary:

Plectin is a prominent member of an important family of structurally and in part functionally related proteins, termed plakins or cytolinkers, that are capable of interlinking different elements of the cytoskeleton. Plakins, with their multi-domain structure and enormous size, not only play crucial roles in maintaining cell and tissue integrity and orchestrating dynamic changes in cytoarchitecture and cell shape, but also serve as scaffolding platforms for the assembly, positioning, and regulation of signaling complexes (reviewed in PMID: 9701547, 11854008, and 17499243). Plectin is expressed as several protein isoforms in a wide range of cell types and tissues from a single gene located on chromosome 8 in humans (PMID: 8633055, 8698233). Until 2010, this locus was named plectin 1 (symbol PLEC1 in human; Plect1 in mouse and rat) and the gene product had been referred to as "hemidesmosomal protein 1" or "plectin 1, intermediate filament binding 500kDa". These names were superseded by plectin. The plectin gene locus in mouse on chromosome 15 has been analyzed in detail (PMID: 10556294, 14559777), revealing a genomic exon-intron organization with well over 40 exons spanning over 62 kb and an unusual 5' transcript complexity of plectin isoforms. Eleven exons (1-1j) have been identified that alternatively splice directly into a common exon 2 which is the first exon to encode plectin's highly conserved actin binding domain (ABD). Three additional exons (-1, 0a, and 0) splice into an alternative first coding exon (1c), and two additional exons (2alpha and 3alpha) are optionally spliced within the exons encoding the acting binding domain (exons 2-8). Analysis of the human locus has identified eight of the eleven alternative 5' exons found in mouse and rat (PMID: 14672974); exons 1i, 1j and 1h have not been confirmed in human. Furthermore, isoforms lacking the central rod domain encoded by exon 31 have been detected in mouse (PMID:10556294), rat (PMID: 9177781), and human (PMID: 11441066, 10780662, 20052759). The short alternative amino-terminal sequences encoded by the different first exons direct the targeting of the various isoforms to distinct subcellular locations (PMID: 14559777). As the expression of specific plectin isoforms was found to be dependent on cell type (tissue) and stage of development (PMID: 10556294, 12542521, 17389230) it appears that each cell type (tissue) contains a unique set (proportion and composition) of plectin isoforms, as if custom-made for specific requirements of the particular cells. Concordantly, individual isoforms were found to carry out distinct and specific functions (PMID: 14559777, 12542521, 18541706). In 1996, a number of groups reported that patients suffering from epidermolysis bullosa simplex with muscular dystrophy (EBS-MD) lacked plectin expression in skin and muscle tissues due to defects in the plectin gene (PMID: 8698233, 8941634, 8636409, 8894687, 8696340). Two other subtypes of plectin-related EBS have been described: EBS-pyloric atresia (PA) and EBS-Ogna. For reviews of plectin-related diseases see PMID: 15810881, 19945614. Mutations in the plectin gene related to human diseases should be named based on the position in NM_000445 (variant 1, isoform 1c), unless the mutation is located within one of the other alternative first exons, in which case the position in the respective Reference Sequence should be used. [provided by RefSeq, Aug 2011]

Transcript Variant: This variant (6) differs in the 5' UTR and the 5' coding region compared to variant 1. The resulting protein (isoform 1) contains a distinct N-terminus compared to isoform 1c.