

Product datasheet for MC223185

Espnl (NM_001033292) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Espnl (NM_001033292) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Espnl
Synonyms:	Gm556
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC223185 representing NM_001033292 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC

ATGGAGGCGCAGCAGGCACTGGTGGCCTCCAAGGATGGGGATATGGCCACCTTGAACGGCTATTTGAGGCTGGTGCCTAAGACCAGACATCACTGATGATCTGGGGGCTGGCCTGGTGCATCATGCCACCCGGGCTGGTCACCTGGACTGTGTCAAGTTCCTGGTACAGAGAGCCAAGCTGCCAGGCAACCAGCAGGCACACAACGGGCCACACCAGTGCAGATGCAGCAGCCACGGGCAACCTGGCAGAGCTGTGCTGGTGGTCCGTGATGCGGGCTGCGGGCTGCAGGACCAAGATGCCTCAGGTGTCTCTCCGCTGCACCTGGCTGCCCGTTTGGACACCCAGCCCTGGTGGAGTGGTTACTCCGTGAGGGCCATGCAGCCACACTGGAGACGCTGGAAGGGGCCTTACCACTGCACCACGCTGCTGTAAGTGGTGATCTGACCTGTCTGAACTCCTGACAGCGGCCACAGCAGTGGTGTGAACCAGCGGACATGCAGTGGTGCCTCTCCACTCTACCTGGCCTGCCAAGAGGGCCACCTGCATCTGGCACAGTTCTCTGGTAAAAGACTGCGGGGCCGACGTGCGCCTGAGAGCCCTGGATGGCATGAGCTCATTGCACGCTGCGGCTGCCACGGCCACTACTCTAGTTGTCTGGTGGTACATTACAGACATCGGCCTGACAGCACGGGATAATGAAGGAGCCACTGCCCTGCACCTTGCAGCTCGGGGGGCCACACACCTATTCTCGACCGCTCCTGCTCATGGGTGCCCCCATCATGAGAGACTCTTGGGAGGGACTCCCTGCATGATGCAGCCGAGAATGGACACATGGAGTGTGCCAGACTCTGCTCTCCCACACGTAGACCCCTTCTGCGGGATGAAGATGGGTATACAGCGATAGACCTGGCAGAGTACCATGGACACCAGGATTGTGCCAGTTCTGCGGAAAATGCTCGGCCGTTGCGGGTCTGATGACACCCCCACCCACCAATTTCCACCTCCTCCACTGCTGGCTGCAAAACTCTCCCTGGAAGAGAAAGAAGAGGGGACTCGGGACTCAAAGCCCTCATCTGCAACTCTCAGCCAGTCTGGCCTGCTCAGCCTGTCCAAAGGAACCGATGGCCTGCACGGCCCTCTGAGGGTACCACCCAGATGCTCTTTCAGGGCCTGAGGTGGAAGCCCGGACTCCCGTGTGGCTAGCCACTCTGCAGCTGGATGGCTTGCTGCGGGAGATCTTGACATGCTGGTGGCCACACAGGACGAGCGTGGCCGGCCATCCCTGAGTGGAGCGGCAGGTGATGGTGCAGGACTACAGGCTCGCTGGGTGCAGACCATCTCCAGAAGACCAGGACCAAGTGCAGAGGCAGGACTCAGGGCCACCCTGCAGAACAGGCAACTTGGAGATATTCACAGACGCCACAG



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GCCATCCTGGGCCCTTTGGAGAGCTGCTGACGGAGGATGATCTTGTATACCTGGAGAAGCAGATCAACG
 ACCTGCAGCTCCGGCGACGCTGCCAGGAGTATGAGAGTGAATGGGCCGGCTGGCAGCCCAGCTGCAGGC
 CCTCCTGCCCGAGCCCCTGGTCAGCATCACCGTCAACAGCCACTTTCTGCCCCGGGCTCCCGGCCTGGAA
 GACGAGGAAGCTCCAGTCTGGCAGTGAAGTCCGAGGAGCCGGGGAAGGCCAGCCAGAG
 GGCAGCCGCTGCCCTTCTGGTGCAGCCACATCGGTGCGCTGGTGCAGCATGTCCTGCTGCTGAAGGG
 TATGAACGGGCTGGCACAGGGTGAAGGAGAAACCACCTCACCGGTCCCGCAGGACCTAGGCAAGGAGACC
 ATTGCCGGCCCCCTCCCGAGCGAGGCCAGCGCAGATCCAAGAGTCCGGAGTGCAGTTCGGACATTGC
 GGGGAACTTCGAGTTTGCCTGATCTGCCCTGCGCCTTGAAGTCCGGTCCCTGTGAGCTGGGGGTGCG
 GCCTGGCCAGTGTCTGAGAGTTGCTGGTGGCGCCGCCACAGCCCCGAGGCGACGCGATGGGTGGGGAG
 CCCGGGCCAGGCGACACAGAGGAGGCCAGCGACTCGGGCATCAGCTGCGAAGAGGCCCGCTCAGAGGCCG
 GCGCGGGTCCAGGGCTGGACCTGGCCAGCTTGCAGCAAGGAGCGCATCGTCATGCTCTTCTCGGCCATTG
 GAAGAAGTCAAGCTACACGCCCGCTCCGACGGCAGCTGCAGGACCTGGAGGCTCAGCGTGCACGA
 TCCAGGGGCCAGAGGCCGGGTAGCCCCGGCCGCTCCCGCAGCCAGCGATGGCCCTCGGCTTG
 GCCACCTGTGGCAGCAGCTGGCATCATACCCACCTGCTGGCACCTGGAAGCCATCATGGCGCACGT
 GCCCGCCCGCAGCTGCGGAGGCTGAGCCGAGGAGCGTGGGCCCTGTCTCCGGAGCAGTTCTTGCCG
 CAGTGGACGGGGCCCCGCTGCCCTACAACAGCCTCTCGTGGACCTTTCATGCTTGGCTACTTCCAGC
 TCTGGAGTGCAGCTGCCAGCCGAGGAGCGAAGATGCGCCACCTGCTGTGCTTCGAGGTTTTTCGAGCA
 TCTGGGCGCACACGGCTGGGAGGCTGTGCGAGCCTTCCATAAGGCAGTGACCGACGAGGTGGCCGCGGT
 CGCCGCGCTGGACCGACGGCTTTGAGGACATCAAGCCCGCTTCTTCGGCTCCAGCCAGGGTCCCCCT
 GGGACGTGGAGCCAGGTGCAAGCTGGGCTGACACCACTCGGGTCTTGCCCCATGCTTCCCTTCTGG
 CAGCGCCCTGAAGCTGCGGTGCCGCGAGGCTGGGGTCTGATCCCAGGGGAGCAGCTTCAACAGCGGA
 GACATCTGTGGCTACATCGACCCAGCTTCGCATTCTGGAAGGAGAAAGAGGCTGAGATGTTAACTTTG
 GAGAA TGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja2138_e06.zip

Restriction Sites: SgfI-MluI

ACCN: NM_001033292

Insert Size: 3018 bp

OTI Disclaimer: 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.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

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:

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: [NM_001033292.3](#), [NP_001028464.1](#)

RefSeq Size: 5442 bp

RefSeq ORF: 3018 bp

Locus ID: 227357

UniProt ID: [Q3UYR4](#)

Cytogenetics: 1 D

Gene Summary: Binds to but does not cross-link actin. Required for the formation and maintenance of inner ear hair cell stereocilia and staircase formation. Essential for normal hearing.
[UniProtKB/Swiss-Prot Function]