

Product datasheet for MC210031

Espn (NM_019585) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Espn (NM_019585) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Espn
Synonyms:	je
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC210031 representing NM_019585 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAAGTCCCAGGGGCTCTAGGTGGGGCCATATACCCAGCACCAAATCTTTCAACATGATGTCCCAA
CGGGTGATAACTCAGAGCTTCTGGCTGAGATAAAGGCGGGCAAGAGCCTGAAGCCGACACCGCAGAGCAA
GGGGCTGACAACCGTGTCTCAGGCAGTGGGCAGCCAGCCTCCAGGTAGGCACTGGCCGAGTGCCCGC
CCGGGCTCCAGTGCCTGCCAGTGCTCAGCCCTACTGCTTCTCCGGCAGCCTGAGTCACCGCAGCCTC
TGGTGTCACCTGCGCCATCTCGACTCGGAGCCCCACCCGCGCAGCCTCTGGGTCTCAGCCACTGCTCAA
TGGCAGTGTGGTGCCGGCACACCTGCCACCCGCGCACCTGGAGTCCATCTGGATGTGGAGGCCCTCATT
CCCACTCTTGATGAGCAGGGCCGCCCCATCCCGGAGTGAAGCGCCAGGTGATGGTCCGCAAGCTGCAGC
AGAAGATGCAGGAGGAAGAGGAGCAGCGGAGGAAGGAGGAAGAGGAGGAGGCCCGGCTCGCCAGCCTGCC
TGCTGGAGACGAGACATTCTTCGGAAGAAGCTGGAGGAGGAGGGAGCAGAAGCGAAAAGAGGAGGAG
CGGCAAAGCTGGAGGAAATACAGAGGGCGAAAGAACAGTCGGAGAAGCTGCGGACACTAGGCTACGACG
AAGCAAAGCTCGCGCCCTGGCAGCGACAGGTCACTTGAAGAAGGGGGAGATCCCTAAG**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-MluI
ACCN:	NM_019585
Insert Size:	762 bp



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OTI Disclaimer:	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).
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:	NM_019585.3 , NP_062531.2
RefSeq Size:	1123 bp
RefSeq ORF:	762 bp
Locus ID:	56226
Cytogenetics:	4 82.9 cM
Gene Summary:	<p>Multifunctional actin-bundling protein. Plays a major role in regulating the organization, dimension, dynamics and signaling capacities of the actin filament-rich microvilli in the mechanosensory and chemosensory cells (PubMed:14657236, PubMed:15190118). Required for the assembly and stabilization of the stereociliary parallel actin bundles. Plays a crucial role in the formation and maintenance of inner ear hair cell stereocilia (PubMed:21455486). Involved in the elongation of actin in stereocilia (PubMed:19287378, PubMed:22264607). In extrastricular hair cells, required for targeting MYO3B to stereocilia tips, and for regulation of stereocilia diameter and staircase formation (PubMed:26926603).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (6) has multiple differences in the coding region but maintains the reading frame, compared to variant 1. This variant encodes isoform 6 which is shorter than isoform 1.</p>