

Product datasheet for **MC222326**

Espn (NM_207687) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Espn (NM_207687) 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)



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Fully Sequenced ORF: >MC222326 representing NM_207687
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCCTGGAGCAGGCGCTGCAGGCGGCACGGCGGGGCGACCTGGACGTGCTGAGTCCCTGCACGCCG
 CCGGCCTGCTGGGCCTTCTCTGCGGACTCGCTAGACGCCCTGCCGGTGCACCATGCGGCCCGCTCAGG
 CAAGCTGCACTGTCTGCGCTACTTGGTGGAGGAGTTGCCCTCCAGCCGTGTCCCGCGCGCAACGGC
 GCCACACCAGCCCATGACGCGCCGCCACAGGCTACCTCTTTGCCTGCAGTGGTGCTCACACAGGGTG
 GCTGCAGGGTGCAGGAAAAAGATAACTCTGGTCCACAGTCTGCATCTGGCTGCCCGCTTTGGCCACCC
 GGATGTGGTGAAGTGGTGTGTACCAGGGCGGTGCAAATTCGGCCATCACACAGACACGGGCGCCCTG
 CCTATCCACTACGCTGCCGCCAAAGGAGACCTCCCCTCGTGAAGCTTCTGGTCGGGCATTACCCTGAGG
 GAGTGAATGCCAAACCAACAACGGTGCCACGCCCTGTACCTGGCGTGCAGGAGGGCCACCTGGAAGT
 GACGAAGTACCTTGTGCAGGAGTGCAGTGCAGATCCGCACCTGCGCGCCCAAGACGGCATGACACCCCTA
 CATGCCGACGACAGATGGGCCACAACCCAGTCTTGGTGTGGCTGGTGGCTTTGCAGACGTTAGCTTTT
 CAGAGCAGGACCACGACGGCGCCACGGCCATGCACTTTGCTGCCAGTCCGGGCCACACCAAAGTGCTCAG
 CTGGCTCCTGCTGCACGGGGCAGAGATCTCGCAGGACCTGTGGGGCGGAACCCCGCTGCATGACGCTGT
 GAGAACGGGGAAGTGGAGTGTGCCAGATCCTCGCGGTGAACGGCGCTGGGCTGGACGTCGCGGACCACG
 ATGGGTACACCGCTGCCGACCTGGCAGAGTTCAATGGCCACACCCACTGTTCCCGCTACCTACGTACGGT
 GCAAACCTGAGCTTGGAAACCCGAGTCTTGTCCCGGATCAATCCATGGACCTGGAGGCAAAGCAGCTG
 GACTCGGGTATGTCTCGCCAAACACCACCATGTCCGGTCCAGCCAATGACCTTTGACCTGGGCTCGCCTA
 CTAGCAGTTCTCCAATATGACTCCTGCTCCTCAGTCACTCCAGCAGCAAGGGGCGAGCATCGAATCG
 AGGGATTCCAGGTGCAAGAGCTGCAGACTTACAGAGCTACATGGACATGCTGAACCCAGAGAAGAGCTTG
 CCTCGGGGCAAGCTAGGGAAGCCTTCCCGCCACCCACCTCCACCACCACCACCACCAAGCTTCCCGCCAC
 CCCCACCACCCACAGGCACCCAGCCGCCCCACCTCCACCAGGCTACCCAGCTCCCAATCCCCTGTGGG
 ACTGCATCTGAATAACATTTACATGCAGACCAAGAACAAGCTTCGCCATGTGGAGGTGGACTCGCTCAAG
 GAGCCCAAGGTGGAGCTGAACGATCAGTTTGCACAGCCGAGCTCGGGCGACGGCCACTCGGGGCTACACA
 GGCAGGACTCCGGGCTGCTCAGGCAGGATTCGGAGCTGCTGCACAGGCAGGAGTGTCTCAGGCACAGCAC
 CGGACTGCGCAGGCAGGACTCCGACCGCAAACAGCGCTCGTTAGTAAACAGCCAGCACGGGGGACTAC
 TACCGCCAGCTGGGCCGACCCGGGGAGCCGCTGGCCGCACGCCCGGGCATGGCCACAGCGAGGAGG
 CGGCGCTGCTCCCGGGAACACGCTGCACAACGGCTGCTCAGCGGACTCCAAAGGCTCCAGGAGCTGCC
 GCCGCCACCGCCGCCCGCCGCTGCCGAGGCCCTGAGTTGCGCCGCGCCCGCCACCTCGCCCATC
 GAGGGCGCGGGCGCAGCCTGCGGGCAGCGTCTGTTCTCTGCTTTCTACTGGCAAAGTGAGAGTCTGAGAC
 ACAGGAAGAGCACCAAATCTTTCAACATGATGTCCCAACGGGTGATAACTCAGAGCTTCTGGCTGAGAT
 AAAGGCGGGCAAGAGCCTGAAGCCGACACCGCAGAGCAAGGGGCTGACAACCGTGTCTCAGGCAGTGGG
 CAGCCAGCCTCCAGCCTGAGTCAACCGCAGCCTCTGGTGTACCTGCGCCATCTCGGACTCGGAGCCCCA
 CCCCAGCAGCCTCTGGTCTCAGCCACTGCTCAATGGCAGTGTGGTGCCGGCACCACCTGCCACCCCGGC
 ACCTGGAGTCCATCTGGATGTGGAGGCCCTCATTCCCCTCTTGTGATGAGCAGGGCCGGCCATCCCGGAG
 TGGAAAGCCAGGTGATGGTCCGCAAGCTGCAGCAGAAGATGCAGGAGGAAGAGGAGCAGCGGAGGAAGG
 AGGAAGAGGAGGAGGCCCGGCTCGCCAGCCTGCCTGCCTGGAGACGAGACATTCTCGGAAGAAGCTGGA
 GGAGGAGAGGGAGCAGAAGCGAAAAGAGGAGGAGCGGAAAAGCTGGAGGAAATACAGAGGGCGAAAAGAA
 CAGTCGGAGAAGCTGCGGACACTAGGCTACGACGAAGCCAAGCTCGCGCCTGGCAGCGACAGGTATCT
 TGAAGAAGGGGAGATCCCTAAG**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_207687
Insert Size: 2616 bp

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_207687.2 , NP_997570.1
RefSeq Size:	2861 bp
RefSeq ORF:	2616 bp
Locus ID:	56226
UniProt ID:	Q9ET47
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 (1) represents the longest transcript and encodes the longest protein (isoform 1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no full-length transcript from the C57BL/6J reference strain was available. The extent of this transcript is supported by its existence in a single strain, JE.</p>