

Product datasheet for **MR224956**

Espn (NM_207689) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Espn (NM_207689) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Espn |
| Synonyms: | je |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



[View online »](#)

ORF Nucleotide Sequence:

>MR224956 representing NM_207689
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGCAATAGCTTGAACACCGAGTCTTGTCCCGGGATCAATCCATGGACCTGGAGGCAAAAGCAGCTGG
 ACTCGGGTATGTCTCGCCAACACCACCATGTGGTCCAGCCAATGACCTTTGACCTGGGCTCGCCTAC
 TAGCACGTTCTCCAACATGACTCCTGCTCCTCCAGTCACTCCAGCAGCAAGGGGAGCGATCGAATCGA
 GGGATTCCAGGTGCAAGAGCTGCAGACTTACAGAGCTACATGGACATGCTGAACCCAGAGAAGAGCTTGC
 CTCGGGGCAAGCTAGGGAAGCCTTCCCCGCCACCCTCCACCACCACCACCACCAAGCTTCCCCGCCACC
 CCCACCACCACAGGCACCCAGCCGCCCCACCTCCACCAGGCTACCCAGCTCCCAATCCCCCTGTGGGA
 CTGCATCTGAATAACATTTACATGCAGACCAAGAACAAGCTTCGCCATGTGGAGGTGGACTCGTCAAGG
 AGGCGGGCTGTCCCCGGGAACCAGTGCACAACGGCTGCTCAGCGGACTCAAAGCGTCCAGGGAGCT
 GCCGCCGCCACCCGCCCGCCGCTGCCGAGGCCCTGAGTTCGCCGCCGCCGCCACCTCTGCC
 ATCGAGGGCGCGGGCGCAGCCTGCGGGCAGCGTCTTCTCGTCTTCTACTGGCAAAGTGAGAGTCTCTGA
 GACACAGGAAGAGCACCAAAATCTTTCAACATGATGTCCCAACGGGTGATAACTCAGAGCTTCTGGCTGA
 GATAAAGGCGGGCAAGAGCCTGAAGCCGACCCGAGAGCAAGGGGCTGACAACCGTGTCTCAGGCAGT
 GGGCAGCCAGCCTCCCAGCCTGAGTCAACCGCAGCCTCTGGTGTCACTGCGCCATCTCGGACTCGGAGCC
 CCACCCGCCAGCCTCTGGGTCTCAGCCACTGCTCAATGGCAGTGTGGTCCCGCACCACCTGCCACCCC
 GGCACCTGGAGTCCATCTGGATGTGGAGGCCCTCATTCCCACTCTTGATGAGCAGGGCCGGCCCATCCCC
 GAGTGGAAAGCCAGGTGATGGTCCGCAAGCTGCAGCAGAAGATGCAGGAGGAAGAGGAGCAGCGGAGGA
 AGGAGGAAGAGGAGGAGGCCCGCTCGCCAGCCTGCCTGCCTGGAGACGAGACATTCTTCGGAAGAAGCT
 GGAGGAGGAGAGGAGCAGAAGCGAAAAGAGGAGGAGCGGCAAAAGCTGGAGGAAATACAGAGGGCGAAA
 GAACAGTCGGAGAAGCTGCGGACACTAGGCTACGACGAAGCCAAGCTCGCGCCCTGGCAGCGACAGGTCA
 TCTTGAAGAAGGGGAGATCCCTAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR224956 representing NM_207689
 Red=Cloning site Green=Tags(s)

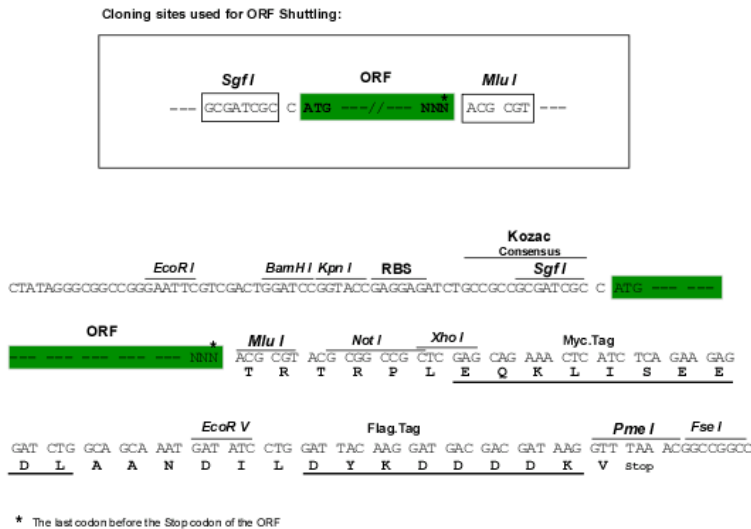
MGNSLEHRVLSRDQSMDEAKQLDSGMSSPNTTMSVQPMFDLGSPTSTFSNYDSCSSSHSSSKGQRSNR
 GIPGARAADLQSYMDMLNPEKSLPRGKLGKSPPPPPPPPPSFP PPPPTGTQPPPPPPGYPAPNPPVG
 LHLNNIYMQTKNKL RHVEVDSLKEAALLPGNHVHNGCSADSKASRELPPPPPPPLPEALSSPPPAPLP
 IEGAGAACGQRRSSSTGKVRVLRHRKSTKSFNMSPTGDNSELLAEIKAGKSLKPTPQSKGLTTVFSGS
 GQPASQPESQPLVSPAPSRTRSPTPPAGSQPLLNGSVVPAPPATPAPGVHLDVEALIPTLDEQGRPIP
 EWKRQVMVRKLQQKMQEEEEQRKKEEEEEARLASLPAWRRDILRKKLEEEEREQKRKEEERQKLEEIQRAK
 EQSEKRLTLGYDEAKLAPWQRQVILKKGEIPK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_207689

ORF Size: 1356 bp

OTI Disclaimer: 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_207689.2](#), [NP_997572.1](#)

RefSeq Size: 1647 bp

RefSeq ORF: 1359 bp

Locus ID: 56226

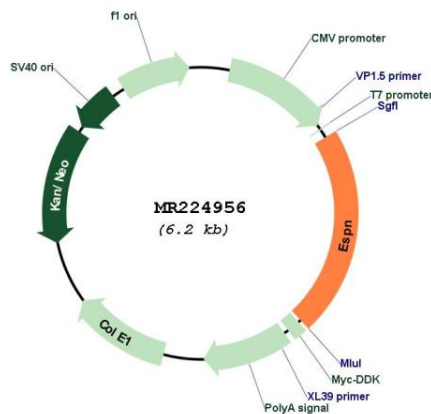
UniProt ID: [Q9ET47](#)

Cytogenetics: 4 82.9 cM

MW: 49.6 kDa

Gene Summary: 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 extrastriolar hair cells, required for targeting MYO3B to stereocilia tips, and for regulation of stereocilia diameter and staircase formation (PubMed:26926603).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR224956