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Product datasheet for MC215988

Espn (NM_207689) Mouse Untagged Clone

Product data:

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

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Fully Sequenced ORF:

>MC215988 representing NM_207689
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGCAATAGCTTGGAACACCGAGTCTTGTCCCGGGATCAATCCATGGACCTGGAGGCAAAGCAGCTGG
ACTCGGGTATGTCCTCGCCCAACACCACCATGTCGGTCCAGCCAATGACCTTTGACCTGGGCTCGCCTAC
TAGCACGTTCTCCAACTATGACTCCTGCTCCTCCAGTCACTCCAGCAGCAAGGGGCAGCGATCGAATCGA
GGGATTCCAGGTGCAAGAGCTGCAGACTTACAGAGCTACATGGACATGCTGAACCCAGAGAAGAGCTTGC
CTCGGGGCAAGCTAGGGAAGCCTTCCCCGCCACCACCTCCACCACCACCACCACCAAGCTTCCCGCCACC
CCCACCACCCACAGGCACCCAGCCGCCCCCACCTCCACCAGGCTACCCAGCTCCCAATCCCCCTGTGGGA
CTGCATCTGAATAACATTTACATGCAGACCAAGAACAAGCTTCGCCATGTGGAGGTGGACTCGCTCAAGG
AGGCGGCGCTGCTCCCCGGGAACCACGTGCACAACGGCTGCTCAGCGGACTCCAAAGCGTCCAGGGAGCT
GCCGCCGCCACCGCCGCCGCCGCCGCTGCCCGAGGCCCTGAGTTCGCCGCCGCCCGCCCCACCTCTGCCC
ATCGAGGGCGCGGGCGCAGCCTGCGGGCAGCGTCGTTCCTCGTCTTCTACTGGCAAAGTGAGAGTCCTGA
GACACAGGAAGAGCACCAAATCTTTCAACATGATGTCCCCAACGGGTGATAACTCAGAGCTTCTGGCTGA
GATAAAGGCGGGCAAGAGCCTGAAGCCGACACCGCAGAGCAAGGGGCTGACAACCGTGTTCTCAGGCAGT
GGGCAGCCAGCCTCCCAGCCTGAGTCACCGCAGCCTCTGGTGTCACCTGCGCCATCTCGGACTCGGAGCC
CCACCCCGCCAGCCTCTGGGTCTCAGCCACTGCTCAATGGCAGTGTGGTGCCGGCACCACCTGCCACCCC
GGCACCTGGAGTCCATCTGGATGTGGAGGCCCTCATTCCCACTCTTGATGAGCAGGGCCGGCCCATCCCG
GAGTGGAAGCGCCAGGTGATGGTCCGCAAGCTGCAGCAGAAGATGCAGGAGGAAGAGGAGCAGCGGAGGA
AGGAGGAAGAGGAGGAGGCCCGGCTCGCCAGCCTGCCTGCCTGGAGACGAGACATTCTTCGGAAGAAGCT
GGAGGAGGAGAGGGAGCAGAAGCGAAAAGAGGAGGAGCGGCAAAAGCTGGAGGAAATACAGAGGGCGAAA
GAACAGTCGGAGAAGCTGCGGACACTAGGCTACGACGAAGCCAAGCTCGCGCCCTGGCAGCGACAGGTCA
TCTTGAAGAAGGGGGAGATCCCTAAGTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_207689

Insert Size: 1359 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:

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.

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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
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] Transcript Variant: This variant (4) has multiple differences in the coding region but maintains the reading frame, compared to variant 1. This variant encodes isoform 4 which is shorter than 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, CBA/CaJ.

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