

Product datasheet for **MG224960**

Espn (NM_207690) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Espn (NM_207690) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Espn
Synonyms: je
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG224960 representing NM_207690
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGCAATAGCTTGAACACCGAGTCTTGTCGGGATCAATCCATGGACCTGGAGGCAAAGCAGCTGG
 ACTCGGGTATGTCCTCGCCCAACACCACCATGTCGGTCCAGCCAATGACCTTTGACCTGGGCTCGCTAC
 TAGCACGTTCTCCAATGACTCCTGCTCCTCCAGTCACTCCAGCAGCAAGGGGACGGATCGAATCGA
 GGGATTCCAGGTGCAAGAGCTGCAGACTACAGAGCTACATGGACATGCTGAACCCAGAGAAGAGCTTG
 CTGGGGCAAGCTAGGGAAGCCTTCCCCGCCACCCTCCACCACCACCACCACCAAGCTTCCCCGCCACC
 CCCACCACCACAGGCACCCAGCCGCCCCACCTCCACCAGGCTACCCAGCTCCCAATCCCCTGTGGGA
 CTGCATCTGAATAACATTTACATGCAGACCAAGAACAAGCTTCGCCATGTGGAGGTGGACTCGCTCAAGG
 AGGCGGGCTGCTCCCCGGGAACACGTCACAAACGGTCTGCTCAGCGGACTCAAAGCGTCCAGGGAGCT
 GCCGCCGCCACCGCCGCCGCCGCTGCCGAGGCCCTGAGTTCGCCGCCGCCGCCCCACCTCTGCC
 ATCGAGGGCGGGGCGCAGCCTGCGGGCAGCGTCGTTCTCGTCTTCTACTGGCAGCACCAAATCTTTCA
 ACATGATGTCCCCAACGGGTGATAACTCAGAGCTTCTGGTGTAGATAAAGGCGGGCAAGAGCCTGAAGCC
 GACACCCGAGAGCAAGGGGCTGACAACCGTGTCTCAGGCAGTGGCAGCCAGCCTCCAGCCTGAGTCA
 CCGCAGCCTCTGGTGTACCTGCGCCATCTCGGACTCGGAGCCCAACCCGCCAGCCTCTGGTCTCAGC
 CACTGCTCAATGGCAGTGTGGTGGCCGCCACCACCTGCCACCCCGGCACCTGGAGTCCATCTGGATGTGGA
 GGCCCTCATTCCACTCTTGATGAGCAGGGCCGCCCATCCCGGAGTGGGAAGCGCCAGGTGATGGTCCGC
 AAGCTGCAGCAGAAGATGCAGGAGGAAGAGGAGCAGCGGAGGAAGGAGGAAGAGGAGGAGGCCCGCTCG
 CCAGCCTGCCTGGAGACGAGACATTTCTCGGAAGAAGCTGGAGGAGGAGGGAGCAGAAGCGAAA
 AGAGGAGGAGCGGCAAAAGCTGGAGGAAATACAGAGGGCGAAAGAACAGTCGGAGAAGCTGCGGACACTA
 GGCTACGACGAAGCAAGCTCGCGCCCTGGCAGCGACAGTTCATCTTGAAGAAGGGGAGATCCCTAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG224960 representing NM_207690
Red=Cloning site Green=Tags(s)

MGNSLEHRVLSRDQSMLEAKQLDSGMSSPNTTMSVQPMTFDLGSPTSTFSNYDSCSSSHSSKQQRSNR
 GIPGARAADLQSYMDMLNPEKSLPRGKLGKPSPPPPPPPPPSFPPPPPTGTQPPPPPPGYPAPNPPVG
 LHLNNIYMQTKNKLRHVEVDSLKEAALLPGNHVHNGCSADSKASRELPPPPPPPLPEALSSPPAPPLP
 IEGAGAACGQRRSSSTGSKSFNMMSPDGNSELLAEIKAGKSLKPTPQSKGLTTVFSGSGQPASQPES
 PQPLVSPAPSRTRSPTPPASGSQPLLNGSVVPAPPATPAPGVHLDVEALIPTLDEQGRPIPEWKRQVMVR
 KLQQKMQEEEEQRRKEEEEEARLASLPAWRRDILRKKLEEEEREQKRKEEERQKLEEIQRAKEQSEKLRTL
 GYDEAKLAPWQRQVILKKGEIPK

TRTRPLE - GFP Tag - V

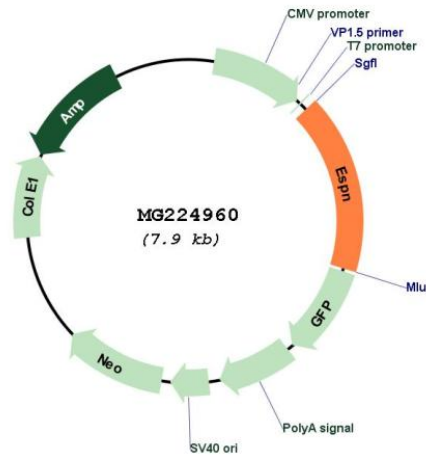
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_207690

ORF Size:	1329 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:	<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_207690.2 , NP_997573.1
RefSeq Size:	1620 bp
RefSeq ORF:	1332 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 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]