

## Product datasheet for **MR224952**

### Espn (NM\_207688) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Espn (NM_207688) 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)



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**ORF Nucleotide Sequence:**

>MR224952 representing NM\_207688  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGCAATAGCTTGAACACCGAGTCTTGTCCCGGGATCAATCCATGGACCTGGAGGCAAAAGCAGCTGG  
 ACTCGGGTATGTCTCGCCAACACCACCATGTGGTCCAGCCAATGACCTTTGACCTGGGCTCGCCTAC  
 TAGCACGTTCTCCAATATGACTCCTGCTCCTCCAGTCACTCCAGCAGCAAGGGGACGATCGAATCGA  
 GGGATTCCAGGTGCAAGAGCTGCAGACTTACAGAGCTACATGGACATGCTGAACCCAGAGAAGAGCTTGC  
 CTCGGGGCAAGCTAGGGAAGCCTTCCCCGCCACCCTCCACCACCACCACCACCAAGCTTCCCCGCCACC  
 CCCACCACCACAGGCACCCAGCCGCCCCACCTCCACCAGGCTACCCAGCTCCCAATCCCCCTGTGGGA  
 CTGCATCTGAATAACATTTACATGCAGACCAAGAACAAGCTTCGCATGTGGAGGTGGACTCGTCAAGG  
 AGCCGAGCTCGGGCGACGGCCACTCGGGCTACACAGGCAGGACTCCGGGCTGCTCAGGCAGGATTCGGA  
 GCTGCTGCACAGGCAGGAGCTGCTCAGGCACAGCACCAGGACTGCGCAGGCAGGACTCCGACCGAAACAG  
 CGCTCGTTCAGTAAACAGCCAGCACGGGGACTACTACCGCCAGCTGGGCCGACGCCCGGGGAGCCGC  
 TGGCCGCACGCCCGGCATGGCCACAGCGAGGAGGCGGCGCTGCTCCCCGGGAACACGTGCACACCGG  
 CTGCTCAGCGGACTCAAAGCGTCCAGGGAGTCCCGCCGCCACCGCCCGCCGCGCTGCCCGAGGCC  
 CTGAGTTCGCGCCGCCGCCACCTCTGCCATCGAGGGCGCGGGCGCAGCCTGCGGGCAGCGTCTGTT  
 CCTCGTCTTACTGGCAAAGTGAGAGTCTGAGACACAGGAAGAGCACCAATCTTCAACATGATGTC  
 CCCAACGGGTGATAACTCAGAGCTTCTGGCTGAGATAAAGGCGGGCAAGAGCCTGAAGCCGACCCGAG  
 AGCAAGGGGTGACAACCGTGTCTCAGGCAGTGGCAGCCAGCCTCCAGCCTGAGTACCAGCAGCCTC  
 TGGTGTCACTCGCCATCTCGGACTCGGAGCCCAACCCCGCAGCCTCTGGGTCTCAGCCACTGCTCAA  
 TGGCAGTGTGGTCCCGGACCACCTGCCACCCCGCACCTGGAGTCCATCTGGATGTGGAGGCCCTCATT  
 CCCACTCTTGATGAGCAGGGCCGCCATCCCGAGTGAAGCGCCAGGTGATGGTCCGCAAGCTGCAGC  
 AGAAGATGCAGGAGGAAGAGGAGCAGCGGAGGAAGGAGGAAGAGGAGGAGGCCCGGCTCGCCAGCCTGCC  
 TGCCTGGAGACGAGACATTTCTCGGAAGAAGCTGGAGGAGGAGGGAGCAGAAGCGAAAAGAGGAGGAG  
 CGGCAAAGCTGGAGGAAATACAGAGGGCGAAAGAACAGTCGGAGAAGCTGCGGACACTAGGCTACGACG  
 AAGCCAAGCTCGGCCCTGGCAGCGACAGGTCTCTTGAAGAAGGGGAGATCCCTAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR224952 representing NM\_207688  
 Red=Cloning site Green=Tags(s)

MGNSLEHRVLSRDQSMLEAKQLDSGMSSPNTTMSVQPMTFDLGSPTSTFSNYDSCSSSHSSSKGQRSNR  
 GIPGARAADLQSYMDMLNPEKSLPRGKLGKSPPPPPPPPSFPPPPPTGTQPPPPPGYPANPPVG  
 LHLNNIYMQTKNKL RHVEVDSLKEPSSGDGHSGLHRQDSGLLRQDSELLHRQELLRHSTGLRRQDSDRKQ  
 RSFSKQPSTGDYRQLGRSPGEPLAARPGMAHSEEAALLPGNHVHNGCSADSKASRELP PPPPPPLPEA  
 LSSPPPAPPLPIEGAGAACGQRRSSSTGKVRVLRHRKSTKSFNMSPTGDNSELLAEIKAGKSLKPTPQ  
 SKGLTTVFSGSQPASQPESQPLVSPAPSRTRSPTPPASGSQPLLNGSVVPAPPATPAGVHLDVEALI  
 PTLDEQGRPIPEWKQVMVRKLQQKMQEEEEQRKEEEEEEARLASLPAWRRDILRKKLEEREQRKEEE  
 RQKLEEIQRKEQSEKLRTLGYDEAKLAPWQRQVILKKGEIPK

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

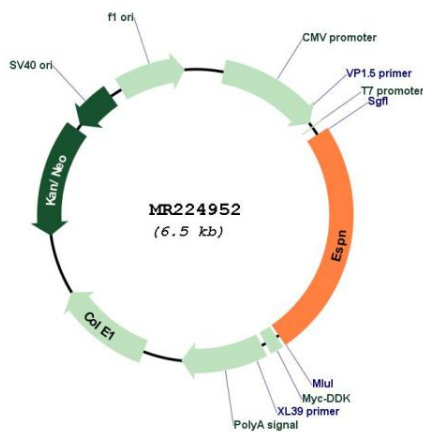


**Cytogenetics:** 4 82.9 cM

**MW:** 58.7 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 MR224952