

Product datasheet for **MR225952**

Fscn2 (NM_172802) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fscn2 (NM_172802) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Fscn2
Synonyms:	A930022G03; Ahl8; C630046B20Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR225952 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCAACCAACGGTCTGCACCAGGTGCTGAAGATCCAGTTTGGCCTTGTTAACGATGCCGACCGCTACC
 TGA CTGCAGAGAGCTTTGGCTTCAAGGTCAACGCCTCCGAGCCAGCCTCAAGAGGAAGCAGATCTGGGT
 CCTGGAGCCTGACCCGGGGCAGGGCACTGCCGTGCTGTTCCGAAGCAGTACCTAGGCGCTACCTGTCA
 GCAGAAGAAGATGGAGCTGTGGCCTGTGAGATGGATCAGCCGGGCGTACTGCCGCTTCTGGTCTTGC
 CGCAGCCTGATGGGCGTGGGTGCTGCAGTCAAGGCCACAGGCCGCTTCTTCGGTGGCATTGAGGACCG
 ACTGCTCTGCTTTGCCACGGCCATTTCCCGGCAGAGCTGTGGACTGTGCACCTGGCCATCCACCCACAG
 GCTCATTTGCTGAGTGTGAGCCGTCGGCGCTACGTGCACCTGTGCCTTCAGGAAGATGAGATGGCAGCAG
 ACGGTGACATGCCATGGGGTGTGGACGCACTAGTACCCTCATTTCCAGAGCAGGCGGACTGCCTCAA
 GTCTTATGACAGCCGCTACCTTCGACGCGATGGCCGCTTGTCTGGGAACCTGAAGCCCATGCCTGCTAC
 ACGCTGGAGTTCAAGGCAGGCAAGCTGGCCTTCAAGGACTGTGACGGCCGGTACCTGGCACCTGTGGGGC
 CTGCTGGCACACTCAAGGCTGGTCGCAACACGAGGCCAGCAAGGATGAACCTTTCGACCTGGAGCAAAG
 TCACCACAGGTGGTGTGGTAGCTGCCAACCGCGCTACATCTCTGTGAGGCAAGGAATCAATGTCTCA
 GCCAATCAGGATGAAGAAGTGGGTGATGAGACATTCCTGATGCAAATCGACCAGGAGACAAAGAAGTGTA
 CTTTCTATTCCAGCACTGGGGGCTACTGGACCTTGGTCAACCATGGGGGCACTTACGGCCACAGCCACACA
 AGTCTCTGCCAACACCATGTTTGAATAGAATGGCATGGCCGGCGGGTGGCACTTAAAGCCAGCAACGGG
 CGTTTTGTGTCATGAAGAAAAACGGGCAGCTGGCCGCATCAGCGACTTGTGGGCGAGGACGAGCTAT
 TTACCCCAAGCTCATCAATCGACCCCTCCTGGTGTGCTGGTGGCCTGGATGGCTTTGTGTGCCACCGCCG
 GGGCTCCAACCAGCTGGACACCAACCGTTCCACTTACGACGTCTTCCACTTGAGCTTCAGGGATGGCGCC
 TATCAGATTAGAGGCCGTGGAGTGGTCTGGTACACAGGCAGCCATGGAAGCGTGTGCAGCGACGGTG
 ACTTGGCGGAAGATTTCTCTTTGAGTTCGAGAGCGTGGCCGCTGGCCATCCGAGCCCTCAGCGGCAA
 GTACCTGCGTGGAGGAGCCTCAGGGCTCCTGCGTGTGATGCAGACCTGCCTGTGGGGGAAGCTCTCTGG
 GAATAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR225952 protein sequence
 Red=Cloning site Green=Tags(s)

MPTNGLHQVLKIQFGLVNDADRYLTAESFGFKVNASASLKRKQIWWLEPDPGQGTAVLFRSSHLGRYLS
 AEEDGRVACEMDQPRDCRFLVLPQPDGRWVQSEPHGRFFGGIEDRLSCFATAISPAELWTVHLAIHPQ
 AHLLSVSRRRYVHLCLEDEMAADGMPWGDALVTLIFQSRRYCLKSYDSRYLRSRGRLVWEPEAHACY
 TLEFKAGKLAFAKDCDGRYLAPVGPAGTLKAGRNRPSKDELFDLEQSHPVVLAANRRYISVRQGINVS
 ANQDEELGHETFMLQIDQETKKCTFYSSSTGGYWTLVTHGGIQATATQVSANTMFEIEWHGRRVALKASNG
 RFVCMKKNQQLAAISDFVGEDELFTLKLINRPLLVLRLDGFVCHRRGSNQLDTRNSTYDVFHLFRDGA
 YQIRGRGGGFWYTGSHGSVCSGDLAEDFLFEFRERGRLAIRALSGKYLRGGASGLLRADADLPVGEALW
 EY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_172802

ORF Size: 1479 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_172802.4](#), [NP_766390.2](#)

RefSeq Size: 1718 bp

RefSeq ORF: 1479 bp

Locus ID: 238021

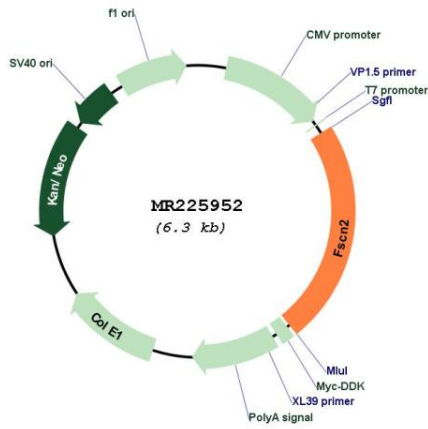
UniProt ID: [Q32M02](#)

Cytogenetics: 11 E2

MW: 55.1 kDa

Gene Summary: Acts as an actin bundling protein. May play a pivotal role in photoreceptor cell-specific events, such as disk morphogenesis. Important for maintaining functional hair-cell bundles in the inner ear. May stiffen the longer stereocilia of hair-cell bundles in the inner ear enabling better force transmission to tip links.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR225952