

Product datasheet for **MG225952**

Fscn2 (NM_172802) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fscn2 (NM_172802) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Fscn2
Synonyms:	A930022G03; Ahl8; C630046B20Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG225952 representing NM_172802
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCAACCAACGGTCTGCACCAGGTGCTGAAGATCCAGTTTGGCCTTGTTAACGATGCCGACCGCTACC
 TGA CTGCAGAGAGCTTTGGCTTCAAGGTCAACGCCTCCGCAGCCAGCCTCAAGAGGAAGCAGATCTGGGT
 CCTGGAGCCTGACCCGGGGCAGGGCACTGCCGTGCTGTTCCGAAGCAGTACCTAGGCCGCTACCTGTCA
 GCAGAAGAAGATGGACGTGTGGCCTGTGAGATGGATCAGCCGGGCGTGACTGCCGCTTCTGGTCTTGC
 CGCAGCCTGATGGGCGCTGGGTGCTGCAGT CAGAGCCACACGGCCGCTTCTTCGGTGGCATTGAGGACCG
 ACTGTCTGCTTTGCCACGGCCATTTCCCGGCAGAGCTGTGGACTGTGCACCTGGCCATCCACCCACAG
 GCTCATTTGCTGAGTGTGAGCCGTCGGCGCTACGTGCACCTGTGCCTTCAGGAAGATGAGATGGCAGCAG
 ACGGTGACATGCCATGGGGTGTGGACGCACTAGTACCCTCATTTCCAGAGCAGGCGGTACTGCCTCAA
 GTCTTATGACAGCCGCTACCTTCGACGCGATGGCCGCTTGTCTGGGAACCTGAAGCCCATGCCTGTAC
 ACGCTGGAGTTCAAGGCAGGCAAGCTGGCCTTCAAGGACTGTGACGGCCGGTACCTGGCACCTGTGGGGC
 CTGCTGGCACACTCAAGGCTGGTCGCAACACGAGGCCAGCAAGGATGAACCTTTCGACCTGGAGCAAAG
 TCACCACAGGTGGTGTGGTAGCTGCCAACGGCGCTACATCTCTGTGAGGCAAGGAATCAATGTCTCA
 GCCAATCAGGATGAAGAACTGGGTGATGAGACATTCCTGATGCAAATCGACCAGGAGACAAAGAAGTGTA
 CTTTCTATTCCAGCACTGGGGGCTACTGGACCTTGGTCAACCATGGGGGCACTTACGGCCACAGCCACACA
 AGTCTCTGCCAACACCATGTTTGAATAGAATGGCATGGCCGGCGGTGGCACTTAAAGCCAGCAACGGG
 CGTTTTGTGTGCATGAAGAAAAACGGGCAGCTGGCCGCATCAGCGACTTGTGGGCGAGGACGAGCTAT
 TTACCCCAAGCTCATCAATCGACCCCTCTGGTGTGCTGCGTGGCCTGGATGGCTTTGTGTCCACCCCG
 GGGCTCCAACAGCTGGACACCAACCGTCCACTTACGACGTCTCCACTTGAGCTTCAGGGATGGCGCC
 TATCAGATTAGAGCCGTGGAGTGGTCTGGTACACAGGCAGCCATGGAAGCGTGTGCAGCGACGGTG
 ACTTGGCGGAAGATTTCTCTTTGAGTTCGAGAGCGTGGCCGCTGGCCATCCGAGCCCTCAGCGGCAA
 GTACCTGCGTGGAGGAGCCTCAGGGCTCTGCGTGTGATGCAGACCTGCCTGTGGGGGAAGCTCTCTGG
 GAATAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

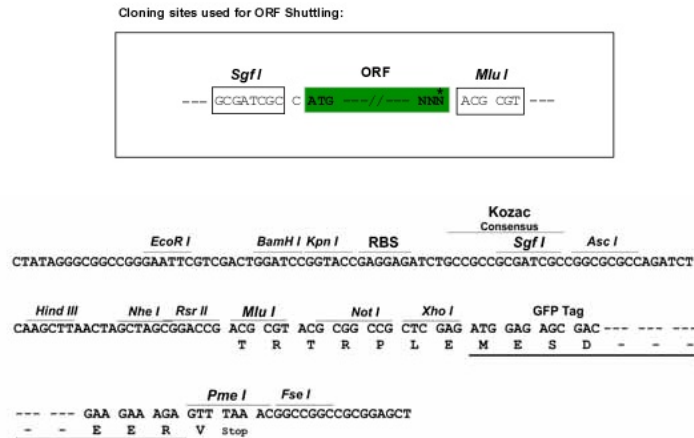
>MG225952 representing NM_172802
 Red=Cloning site Green=Tags(s)

MPTNGLHQVLKIQFGLVNDADRYLTAESFGFKVNASAASLKRKQIWLPEPDPGQGTAVLFRSSHLGRYLS
 AEEDGRVACEMDQPRDCRFLVLPQPDGRWVLQSEPHGRFFGGIEDRLSCFATAISPALWTVHLAIHPQ
 AHLLSVSRRYVHLCLEDEMAADGMPWGDALVTLIFQSRRYCLKSYDSRYLRSDGRLVWEPEAHACY
 TLEFKAGKLAFKDCDGRYLAPVGPAGTLKAGRNRTPSKDELFDLEQSHPVVLAANRRYISVRQGINVS
 ANQDEELGHETFLMQIDQETKKCTFYSSSTGGYWTLVTHGGIQATATQVSANTMFEIEWHGRRVALKASNG
 RFVCMKKNQLAAISDFVGEDELFTLKLINRPLLVLRLDGFVCHRRGSNQLDNRSTYDVFHLSFRDGA
 YQIRGRGGFWYTGSHGSVCSGDLAEDFLFEFRERGLAIRALSGKYLRGGASGLLRADADLPVGEALW
 EY

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_172802

ORF Size: 1476 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

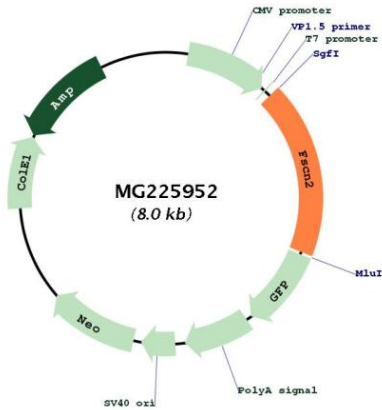
UniProt ID: [Q32M02](#)

Cytogenetics: 11 E2

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 MG225952