

Product datasheet for **MG207918**

Fscn1 (NM_007984) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fscn1 (NM_007984) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Fscn1
Synonyms:	AI663989; Fan1; fascin-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG207918 representing NM_007984
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGACCGCAACGGCACGGCAGAGGCTGTGCAGATTCAGTTCGGGCTCATCAGCTGCGGCAACAAGTACC
 TGACAGCCGAGGGTTCGGGTTCAAGGTGAACGCATCCGCTAGTAGCTTAAAAAGAAGCAGATCTGGAC
 GCTGGAGCAACCTCCCGATGAGGCGGGCAGCGCGCCGTGTCTGCGCAGCCACCTGGGTCTGCTACCTG
 GCCGCCGACAAGGACGGCAACGTGACCTGCGAGCGGAGGTGCCCGACGGCGACTGCCGCTTCTCGTCG
 TGGCGCACGACGCGCCGCTGGTCTGTCAGTCCGAGGCTCACCGCGCTACTTTGGCGGCACCGAGGA
 CCGCTGTCTGCTTCCGCGCAGAGCGTGTCCGCGCCGAGAAGTGGAGCGTGCACATCGCCATGCACCCG
 CAGGTTAACATCTACAGCGTTACCCGAAGCGCTACGCGCATCTGAGCGCGCGCCGCGCCGACGAGATCG
 CGGTAGACCGCGACGTGCCTTGGGGCTGACTCGCTCATCACCTTGGCCTTCCAGGACCAACGCTACAG
 TGTGCAGACGTCCGACCACCGCTTCTGCGCCACGACGGGCGCTTGTGGCACGGCCGGAGCCGCCACG
 GGCTTACGCTGGAGTTCGCTCCGCAAGGTGGCCTTTCGCGACTGCGAAGGTCTGCTACCTGGCTCCGT
 CCGGGCCAGCGCACCTCAAGGCTGGCAAGGCCACCAAGGTGGGCAAAGATGAGCTCTTCGCCCTGGA
 ACAGAGCTGCGCTCAGGTGGTGTGACAGCGGCCAACGAGAGAACGTGTCCACGCGCCAGGGAATGGAC
 CTGTACAGCAATCAGGATGAAGAGACCGATCAGGAGACCTTCCAGCTGGAGATCGACCGCGACACAAGAA
 AGTGTGCCTTTCGCACCCACACGGGCAAGTACTGGACACTGACGGCGACCGGAGGTGTGCAATCCACTGC
 GTCCACCAAGAAGCCAGCTGCTACTTTGACATCGAGTGGTGTGACCGCCGGATCACTCTGAGAGCTCC
 AACGGCAAGTTTGTGACCGCAAGAAAAATGGCCAGCTGGCCGCTCGGTGGAGACAGCAGGGGATCGG
 AACTTCTCATGAAGCTGATTAACCGCCCATCATCGTGTTCGGGGGGAACACGGGTTCAATTGGCTG
 CCGCAAGGTACGGGCACTCTGGATGCCAACCGTTCAGTTACGATGTCTTCCAGTTGGAATTCATGAC
 GCGCCTACAACATCAAAGACTCCACGGCAAGTACTGGACGGTGGGTAGTGATTCTCGGTACCAGCA
 GCAGCGACACCCCTGTGGATTTCTTCTTGTGACTACAATAAGGTGGCTCTCAAGGTGGGCGG
 CCGCTACCTGAAGGGGACACGCTGGGTCTGAAGGCCTGCGCGGAGACTATCGACCCCGCTCACTC
 TGGGAGTAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

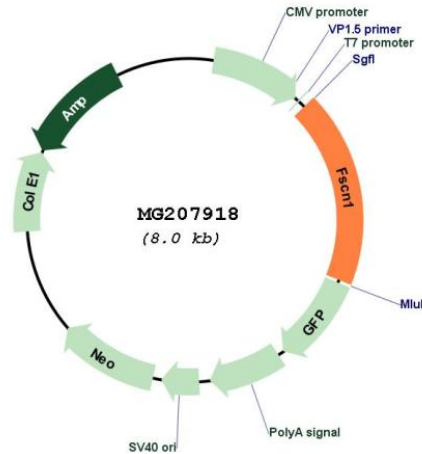
>MG207918 representing NM_007984
 Red=Cloning site Green=Tags(s)

MTANGTAEAVQIQFGLISCGNKYLTAFAFGFKVNASASSLKKKQIWTLEQPPDEAGSAAVCLRSHLGRYL
 AADKDGNTCEREVPDGDRCFLVVAHDDGRWSLQSEAHRRYFGGTEDRLSCFAQSVSPA EKWSVHIAMHP
 QVNIYSVTRKRYAHL SARP ADEIAVDRDVPWGVDSLITLAFQDQRYSVQTS DHRFLRHDGRLVARPEPAT
 GFTLEFRSGKVAFRDCEGRYLAPSGPSGTLKAGKATKVGKDELFALEQSCAQVVLQAANERNVSTRQGM
 L SANQDEETDQETFQLEIDRDTRKCAFRTHTGKYWTLTATGGVQSTASTKNASCYFDIEWCDRRITLRAS
 NGKFVTA KKNQLAASVETAGDSELFLMKLINRPIIVFRGEHGF IGCRKVTGTL DANRSSYDVFQLEFND
 GAYNIKDSTGKYWTVGSDSSVTSSSDTPVDFLFLEFCDYNKVALKVGGRYLKGDHAGVLKACAETIDPASL
 WEY

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

Plasmid Map:


ACCN: NM_007984

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_007984.2](#), [NP_032010.2](#)

RefSeq Size: 2667 bp

RefSeq ORF: 1482 bp

Locus ID: 14086

UniProt ID: [Q61553](#)

Cytogenetics: 5 81.84 cM

Gene Summary: Actin-binding protein that contains 2 major actin binding sites (By similarity). Organizes filamentous actin into parallel bundles (PubMed:7738015). Plays a role in the organization of actin filament bundles and the formation of microspikes, membrane ruffles, and stress fibers (By similarity). Important for the formation of a diverse set of cell protrusions, such as filopodia, and for cell motility and migration (PubMed:21685497). Mediates reorganization of the actin cytoskeleton and axon growth cone collapse in response to NGF (By similarity). [UniProtKB/Swiss-Prot Function]