

Product datasheet for **MG210517**

Fap (NM_007986) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fap (NM_007986) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Fap
Synonyms:	SIMP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG210517 representing NM_007986
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAGACATGGCTGAAAACGTCTTTGGAGTTACCACCCTGGCTGCGCTTGCTTTAGTGGTGATATGCA
 TTGCTTACGTCCCTCAAGAGTTTACAACCTGAAGGAAACACAAGAGAGCTCTTACCTGAAGGATAT
 TTTAAATGGAACATTCTCATATAAAACATATTTTCCCAACTGGATTTCAGAACAAGAATATCTTCATCAA
 TCTGAGGATGATAACATAGTATTTTATAATATTGAAACAAGAGAATCATATATCATTGAGTAATAGCA
 CCATGAAAAGTGTGAATGCTACAGATTATGGTTTGTACCTGATCGGCAATTTGTGTATCTAGAAAAGTGA
 TTATTCAAAGCTCTGGCGATATTCATACACAGCGACATACTACATCTACGACCTTCAGAATGGGGAATTT
 GTAAGAGGATACGAGCTCCCTCGTCCAATTCAGTATCTATGCTGGTGCCTGTTGGGAGTAAATTAGCAT
 ATGTATATCAAAACAATATTTTAAATGGAATACCAGACTGGGTTTATGAAGAGGAAATGCTTGCCACAAAAT
 GCTCTTTGGTGGTCTCCAGATGGAATAATTTGGCATATGTAGAATTTAATGATTAGATATACCAATTA
 TTGCCTATTCTTATTATGGTGATGGACAGTATCCTAGAACTATAAATATTCATATCCAAAGGCTGGGGC
 TAAGAATCCGGTTGTTCTGTGTTTTATTGTTGACACCCTACCCTCACCACGTGGGCCCAATGGAAGTG
 CCAGTTCAGAAATGATAGCCTCAAGTACTATTTTACAGTGGCTCACATGGGTGCCAGTGAACGAG
 TATGCTTCAGTGGCTAAAAGAGTGCAGAATGTCTCAGTCTGTCTATATGTGATTTACAGGAAGACTG
 GCATGCATGGGAATGTCCAAAGAACCAGGAGCATGTAGAAGAAAGCAGAACAGGATGGGCTGGTGGATTC
 TTTGTTTCGACACCAGCTTTTAGCCAGGATGCCACTTCTACTACAAAATATTTAGCGACAAGGATGGTT
 ACAACAGATATTCACTACATCAAAGACACTGTGGAAAATGCTATTCAAATACAAGTGGCAAGTGGGAGGC
 CATATATATATTCGCGTAACACAGGATTCAGTGTGTTTATTCTAGCAATGAATTTGAAGGTTACCCTGGA
 AGAAGAAACATCTACAGAATTAGCATTGAAAACCTCCTCCGAGCAAGAAGTGTGTTACTTGCCATCTAA
 GGAAAGAAAGGTGCCAATATTACACAGCAAGTTTACAGTACAAAGCCAAGTACTATGCACCTCGTCTGCTA
 TGGCCCTGGCCTCCCATTTCCACCCTCCATGATGGCCGCACAGACCAAGAAATACAAGTATTAGAAGAA
 AACAAAGAACTGGAAAATCTCTGAGAAATATCCAGCTGCCTAAAGTGGAGATTAAGAAGCTCAAAGACG
 GGGGACTGACTTTCTGGTACAAGATGATTTGCCTCCTCAGTTTGACAGATCAAAGAAGTACCCTTTGCT
 AATTCAAGTGTATGGTGGTCTTGTAGCCAGAGTGTAAAGTCTGTGTTTGTGTTAATTGGATAACTTAT
 CTGCAAGTAAGGAGGGGATAGTCATTGCCCTGGTAGATGGTCCGGGCACTGCTTTCCAAGGTGACAAAT
 TCCTGCATGCCGTGTATCGAAAACCTGGGTGTATATGAAGTTGAGGACCAGCTCACAGCTGTGAGAAAAT
 CATAGAAATGGGTTTCATTGATGAAGAAAGAATAGCCATATGGGGCTGGTCTACGGAGGTTATGTTTCA
 TCCTGGCCCTTGATCTGGAACCTGGTCTTTTCAAATGTGGCATAGCAGTGGCTCCAGTCTCCAGCTGGG
 AATATTACGCATCTATCTACTCAGAGAGATTATGGGCCCTCCCAACAAAGGACGACAATCTCGAACACTA
 TAAAAATCAACTGTGATGGCAAGAGCAGAATATTTAGAAAATGTAGACTATCTTCTCATCCACGGAAACA
 GCAGATGATAATGTGCACTTTTCAAGACTCAGCACAGATTGCTAAAGCTTTGGTTAATGCACAAGTGGATT
 TCCAGGCGATGTGGTACTCTGACCAGAACCATGGTATATTATCTGGGCGCTCCAGAAATCATTATATAC
 CCATGACGCACTTCTCAAGCAATGCTTTTCTTTATCAGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG210517 representing NM_007986
 Red=Cloning site Green=Tags(s)

MKTWLKTVFGVTTAALALVVICIVLRPSRVYKPEGNTKRALTLKDILNGTFSYKTYFPNWISEQEYLHQ
 SEDDNIVFYNIETRESYIILSNSTMKSVNATDYGLSPDRQFVYLEDYSKLRYSYATATYYIDLQNGEF
 VRGYELPRPIQYLWCSPVGSKLAYVYQNNIYLKQRPGDPPFQITYTGRENRIENGIPDWVYEEMLATKY
 ALWWSPDGKFLAYVEFNDSDIPIIAYSYYGDGQYPRTINIPYPKAGAKNPVVRVFIVDTTYPHHVGPMEV
 PVPEMIASSDYFSQLTWVSSERVCLQWLKRVQNVSVLSICDFREDWHAWECPKNQEHVESRTGWAGGF
 FVSTPAFSQDATSYKIFSDKDGYKHIHYIKDVTENAIQITSGKWEAIYIFRVTQDSLFISSNEFEGYPG
 RRNIYRISIGNSPPSKKCVTCHLRKERCQYYTASFYKAKYYALVCYGPGLPISTLHDGRDQEIQVLEE
 NKELENSLRNIQLPKVEIKKLDGGLTFWYKMLPPQFDRSKKYPLLQVYGGPCSQSVKSVFVFNWITY
 LASKEGIVIALVDGRGTAFOGDKFLHAVYRKLGVYEVEDQLTAVRKFIEMGFIDEERIAIWGWSYGGYVS
 SLALASGTGLFKCGIAPVSSWEYYSIYSERFMGLPTKDDNLEHYKNSTVMARAEYFRNVYLLIHGT
 ADDNVHFQNSAQIAKALVNAQVDFQAMWYSDQNHGILSGRSQNHLYTHMTHFLKQCFSLSD

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_007986

ORF Size: 2283 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_007986.2](#), [NP_032012.1](#)

RefSeq Size: 2695 bp

RefSeq ORF: 2286 bp

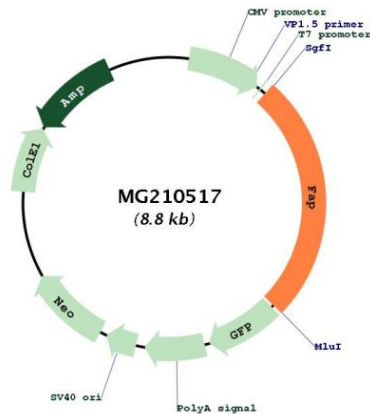
Locus ID: 14089

UniProt ID: [P97321](#)

Cytogenetics: 2 35.85 cM

Gene Summary: This gene belongs to the serine protease family. The encoded protein is an inducible cell-surface bound glycoprotein specifically expressed in tumor-associated fibroblasts and pericytes of epithelial tumors and has protease and gelatinase activity. The protein plays a role in remodeling of the extracellular matrix (ECM) and may affect tumorigenesis and tissue repair. Alternately spliced transcript variants of this gene are described in the literature (PMID 9139873), but the full-length sequence of these variants is not available. [provided by RefSeq, Apr 2013]

Product images:



Circular map for MG210517