

Product datasheet for **MR210517**

Fap (NM_007986) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fap (NM_007986) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Fap
Synonyms:	SIMP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>MR210517 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAGACATGGCTGAAAACGTCTTTGGAGTTACCACCCTGGCTGCGCTTGCTTTAGTGGTGATATGCA
 TTGTCTTACGTCCCTCAAGAGTTTACAAACCTGAAGGAAACACAAGAGAGCTCTTACCTGAAGGATAT
 TTTAAATGGAACATTCTCATATAAAACATATTTTCCCAACTGGATTTCAGAACAAGAATATCTTCATCAA
 TCTGAGGATGATAACATAGTATTTTATAATATTGAAACAAGAGAATCATATATCATTGAGTAATAGCA
 CCATGAAAAGTGTGAATGCTACAGATTATGGTTTGTACCTGATCGGCAATTTGTGTATCTAGAAAAGTGA
 TTATTCAAAGCTCTGGCGATATTCATACACAGCGACATACTACATCTACGACCTTCAGAATGGGGAATTT
 GTAAGAGGATACGAGCTCCCTCGTCCAATTCAGTATCTATGCTGGTCGCCTGTTGGGAGTAAATTAGCAT
 ATGTATATCAAAACAATATTTTAAATGGAATACCAGACTGGGTTTATGAAGAGGAAATGCTTGCCACAAAAT
 GCTCTTTGGTGGTCTCCAGATGAAAAATTTTGGCATATGTAGAATTTAATGATTAGATATACCAATTA
 TTGCCTATTCTTATTATGGTGATGGACAGTATCCTAGAACTATAAATATTCATATCCAAAGGCTGGGGC
 TAAGAATCCGGTTGTTCTGTGTTTTATTGTTGACACCCTACCCTCACCACGTGGGCCCAATGGAAGTG
 CCAGTTCAGAAATGATAGCCTCAAGTACTATTTTACAGTGGCTCACATGGGTGTCCAGTGAACGAG
 TATGCTTCAGTGGCTAAAAGAGTGCAGAATGTCTCAGTCTGTCTATATGTGATTTACAGGAAGACTG
 GCATGCATGGGAATGTCCAAAGAACCAGGAGCATGTAGAAGAAAGCAGAACAGGATGGGCTGGTGGATTC
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 ACAACATATTCACTACATCAAAGACACTGTGGAAAATGCTATTCAAATTACAAGTGGCAAGTGGGAGGC
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 AGAAGAAACATCTACAGAATTAGCATTGAAAACCTCCTCCGAGCAAGAAGTGTGTTACTTGCCATCTAA
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 AACAAAGAAGTGGAAAATTTCTCTGAGAAATATCCAGCTGCCTAAAGTGGAGATTAAGAAGCTCAAAGACG
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 AATTCAAGTGTATGGTGGTCTTGTAGCCAGAGTGTAAAGTCTGTGTTTGTGTTAATTGGATAACTTAT
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 TCCAGGCGATGTGGTACTCTGACCAGAACCATGGTATATTATCTGGGCGCTCCAGAAATCATTATATAC
 CCATGACGCACTTCTCAAGCAATGCTTTTCTTTATCAGAC

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210517 protein sequence
 Red=Cloning site Green=Tags(s)

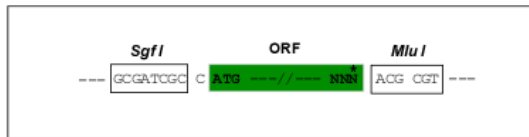
MKTWLKTVFGVTTAALALVVICIVLRPSRVYKPEGNTKRALTLKDILNGTFSYKTYFPNWISEQEYLHQ
 SEDDNIVFYNIETRESYIILSNSTMKSVNATDYGLSPDRQFVYLEDYSKLRYSYATATYYIDLQNGEF
 VRGYELPRPIQYLWCSPVGSKLAYVYQNNIYLKQRPGDPPFQITYTGRENRIENGIPDWVYEEEMLATKY
 ALWWSPDGKFLAYVEFNDSDIPIIAYSYYGDGQYPRTINIPYPKAGAKNPVVRVIVDTTYPHHVGPMEV
 PVPETIASSDYFSLTWVSSERVCLQWLKRVQNVSVLSICDFREDWHAWCEPKNQEHVESRTGWAGGF
 FVSTPAFSQDATSYKIFSDKDGYKHIHYIKDVTENAIQITSGKWEAIYIFRVTQDSLFISSNEFEGYPG
 RRNIYRISIGNSPPSKCVTCHLRKERCQYATSFYKAKYYALVCYGPGLPISTLHDGRDQEIQVLEE
 NKELENSLRNIQLPKVEIKKLDGGLTFWYKMLPPQFDRSKKYPLLQVYGGPCSQSVKSVFVAVNWITY
 LASKEGIVIALVDGRGTAFOGDKFLHAVYRKLGVYEVEDQLTAVRKFIEMGFIDEERIAIWGWSYGGYVS
 SLALASGTGLFKCGIAPVSSWEYASISYERFMGLPTKDDNLEHYKNSTVMARAEYFRNVYLLIHGT
 ADDNVHFQNSAQIAKALVNAQVDFQAMWYSDQNHGILSGRSQNHLYTHMTHFLKQCFSLSD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_007986

ORF Size: 2286 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_007986.1](#), [NM_007986.2](#), [NM_007986.3](#), [NP_032012.1](#)

RefSeq Size: 2704 bp

RefSeq ORF: 2286 bp

Locus ID: 14089

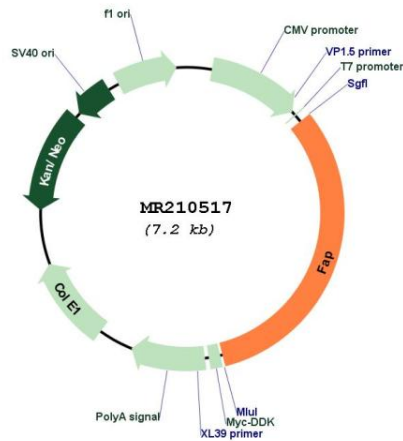
UniProt ID: [P97321](#)

Cytogenetics: 2 35.85 cM

MW: 88 kDa

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 MR210517