

Product datasheet for **MG207115**

F7 (NM_010172) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	F7 (NM_010172) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	F7
Synonyms:	A1132620; Cf7; F; FVII
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG207115 representing NM_010172
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTTCCACAGGCGCATGGGCTGCTGCTTCTCTGCTTTCTGCTCCAGCTCCAGGGACCTCTAGGGACTG
 CAGTTTTTCATAACCCAGGAGGAAGCACATGGTGTCTACACAGGCAAAGGCGTGCCAACTCACTCCTGGA
 GGAGCTTTGGCCCGGCTCTCTGGAGAGAGAGTGAATGAGGAACAGTGCTCCTTTGAGGAGGCCCGGGAG
 ATCTTCAAGAGCCCTGAGAGGACCAAGCAGTTCTGGATTGTTTACAGTGATGGGACCAAGTGTGCCTCGA
 ATCCATGTCAGAACGGAGGTACCTGCCAGGATCATCTCAAGTCTTACGTCTGCTTCTGCCTCCTAGACTT
 TGAGGGTCGGAAGTGTGAGAAAAGCAAGAATGAGCAGCTGATCTGTGCAAATGAAAATGGTACTGTGAC
 CAGTACTGCAGGGACCATGTAGGGACCAAGCGTACCTGTAGCTGTGATGAGGACTACACGCTACAGCCAG
 ATGAGGTGCTCCTGCAAACAAAAGTTGAGTACCGGTGTGGGAGAATACCTGTTGTAGAAAAAGAAACTC
 CAGCAGCCGCAAGGCCGCAATTGTGGGAGGCAACGTGTGCCCCAAAGGGGAGTGTCCATGGCAGGCTGTG
 CTGAAAATCAATGGGTTATTGCTGTGTGGGGCCGTCCTGCTGGACGCCAGATGGATAGTGACCGCAGCCC
 ACTGCTTCGATAATATCCGCTACTGGGGAACATCACAGTGGTGTGGGTGAACATGACTTCAGTGAGAA
 GGATGGGGATGAGCAAGTACGACGGGTGACACAGGTTCATCATGCCCGACAAGTACATCCGCGCAAGATC
 AACCACGACATTGCCCTGCTCCGCCTTACCAGGCTGTGACCTTCACTGACTACGTGGTGGCCCTGTGTC
 TGCTGAAAAGTCTTCTCCGAGAACACCTAGCCAGAATCCGCTTCTCAAGGGTCAGTGGCTGGGGCCA
 GCTACTGGACCGTGGTCCACAGCCCTGGAAGTTCATGTCCATCGAGGTGCCCGGCTGATGACCCAGGAC
 TGTCTGGAGCACGCCAAGCACAGCTCTAACACCCCAAAAATCACAGAGAACATGTTCTGCCTGGCTACA
 TGGATGGTACCAAGGACGCTGCAAGGGTGACAGCGGTGGCCACATGCCACGCACTACCATGGCACATG
 GTATCTGACAGGTGTGGTCAGCTGGGGGAGGGCTGTGCAGTATTGGTACATTGGGGTGTACACCAGG
 GTCTCCAGTACATAGACTGGCTGGTCAGACACATGGACTCCAAGCTCCAGGTTGGGGTTTTCCGACTCC
 CACTACTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG207115 representing NM_010172
 Red=Cloning site Green=Tags(s)

MVPAHGLLLLCFLLQLQGPLGTAVFITQEEAHGVLHRQRANSLLLEELWPGSLERECNEEQCSFEEARE
 IFKSPERTKQFWIVYSDGDQCASNPCQNGGTCQDHLKSYVCFCLLDFEGRNCEKSKNEQLICANENGDCD
 QYCRDHVGTKRTCSCHEDYTLQPDEVSKPKVEYPCGRIPVVEKRNSSSRQGRIVGGNVCPKGECPWQAV
 LKINGLLL CGAVLLDARIVVTAHCFDNIYWGNI TVVMGEHDFSEKDGDEQVRRVTQVIMPDKYIRGKI
 NHDIALLRHRPVTFDYYVPLCLPEKSFSENTLARIRFSRVSGWQLLDRGATALELMSIEVPRLMTQD
 CLEHAKHSSNTPKITENMFCAGYMDGTDACKGDSGGPHATHYHGTWYLTGVVSWGEGCAAIGHIGVYTR
 VSQYIDWLVRHMDSKLLQVGFRLPLL

TRTRPLE - GFP Tag - V

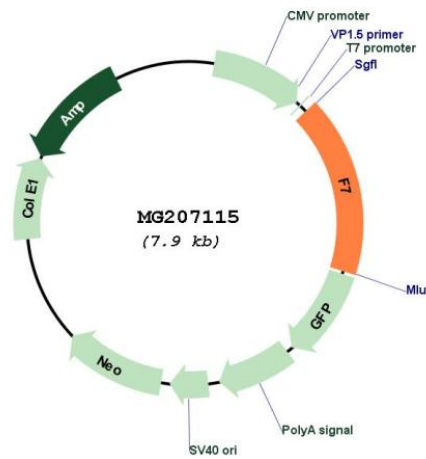
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_010172

ORF Size: 1338 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:	<ol style="list-style-type: none">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_010172.4
RefSeq Size:	1850 bp
RefSeq ORF:	1341 bp
Locus ID:	14068
UniProt ID:	P70375
Cytogenetics:	8 5.73 cM
Gene Summary:	This gene encodes a vitamin K-dependent serine protease that plays a critical role in the extrinsic pathway of blood coagulation. Upon contact with tissue factor III (TF III), the encoded protein forms an activated complex termed TF-FVIIa that initiates the coagulation cascade involving other coagulation factors, ultimately resulting in a fibrin clot. Complete lack of the encoded protein in mice results in in perinatal lethality due to bleeding from normal blood vessels. [provided by RefSeq, Apr 2015]