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# Product datasheet for MG226536

## F9 (NM_007979) Mouse Tagged ORF Clone

### Product data:

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| **Product Type:** | Expression Plasmids |
| **Product Name:** | F9 (NM_007979) Mouse Tagged ORF Clone |
| **Tag:** | TurboGFP |
| **Symbol:** | F9 |
| **Synonyms:** | AW111646; Cf-9; Cf9 |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-AC-GFP (PS100010) |
| **E. coli Selection:** | Ampicillin (100 ug/mL) |

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**ORF Nucleotide Sequence:**

>MG226536 representing NM_007979
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAGCACCTGAACACCGTCATGGCAGAATCCCCGGCTCTCATCACCATCTTCCTTTTAGGATATCTAC
TCAGTACCGAATGTGCAGTTTTCCTTGATCGTGAAAATGCCACCAAAATTCTTACCCGTCCAAAGAGATA
TAATTCAGGAAAACTAGAAGAGTTTGTTCGAGGAAACCTTGAAAGAGAGTGTATAGAAGAAAGATGTAGT
TTTGAAGAAGCACGAGAAGTTTTTGAAAACACTGAAAAAACTACTGAATTTTGGAAGCAGTATGTTGATG
GAGATCAGTGTGAATCAAATCCTTGTTTAAATGGTGGAATATGCAAGGATGATATTAGTTCCTATGAATG
CTGGTGCCAAGTTGGATTTGAAGGAAGGAACTGTGAATTAGATGCAACGTGTAACATTAAAAATGGCAGG
TGCAAGCAGTTTTGTAAAAACAGTCCTGATAACAAGGTAATTTGTTCCTGCACTGAGGGATACCAACTTG
CAGAAGACCAGAAGTCCTGTGAACCAACAGTTCCATTTCCATGTGGGAGAGCTTCTATTTCATACAGTTC
TAAAAAGATCACGAGAGCTGAGACTGTTTTCTCTAATATGGACTATGAAAATTCTACTGAAGCTGTATTC
ATTCAAGATGACATCACTGATGGTGCCATTCTTAATAACGTCACTGAAAGTAGTGAATCACTTAATGACT
TCACTCGAGTTGTTGGTGGAGAAAACGCAAAACCGGGTCAAATCCCTTGGCAGGTCATTTTAAATGGTGA
AATTGAGGCATTCTGTGGAGGTGCCATCATTAATGAAAAATGGATTGTAACTGCTGCCCACTGTCTTAAA
CCTGGTGATAAAATTGAGGTTGTTGCTGGTGAATATAACATTGATAAGAAGGAAGACACAGAACAAAGGA
GAAATGTGATTCGAACTATCCCTCATCACCAGTACAATGCAACTATTAATAAGTATAGTCATGACATTGC
CTTGCTGGAACTGGATAAACCTTTAATACTAAACAGCTATGTAACACCTATCTGTGTTGCCAATAGGGAA
TATACAAATATCTTCCTCAAGTTTGGTTCTGGCTATGTCAGTGGCTGGGGAAAAGTCTTCAACAAAGGGA
GACAGGCTTCCATTCTTCAGTACCTTAGAGTTCCACTGGTGGATAGAGCCACATGCCTTAGGTCCACAAC
ATTCACTATCTATAACAACATGTTCTGTGCAGGCTACCGTGAAGGAGGCAAAGATTCGTGTGAAGGAGAT
AGTGGGGGACCCCATGTTACTGAAGTAGAAGGGACAAGTTTCTTAACTGGCATTATTAGCTGGGGTGAAG
AATGTGCAATGAAAGGCAAATATGGAATATATACTAAGGTTTCCCGGTACGTCAACTGGATTAAGGAAAA
AACAAAGCTAACT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

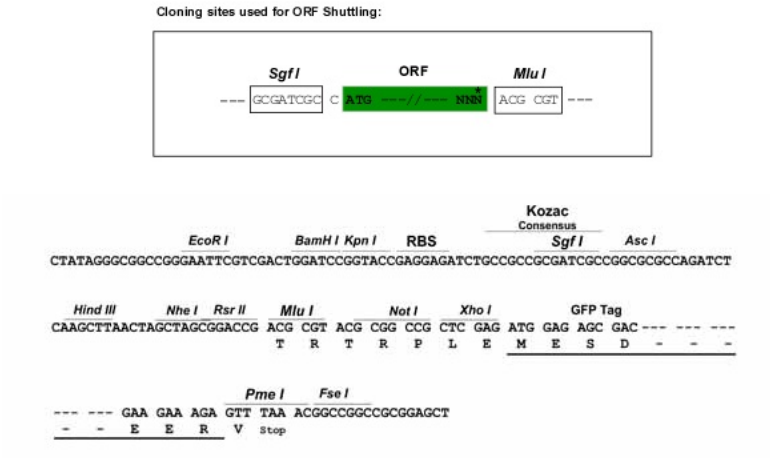
>MG226536 representing NM_007979
Red=Cloning site Green=Tags(s)

MKHLNTVMAESPALITIFLLGYLLSTECAVFLDRENATKILTRPKRYNSGKLEEFVRGNLERECIEERCS
FEEAREVFENTEKTTEFWKQYVDGDQCESNPCLNGGICKDDISSYECWCQVGFEGRNCELDATCNIKNGR
CKQFCKNSPDNKVICSCTEGYQLAEDQKSCEPTVPFPCGRASISYSSKKITRAETVFSNMDYENSTEAVF
IQDDITDGAILNNVTESSESLNDFTRVVGGENAKPGQIPWQVILNGEIEAFCGGAIINEKWIVTAAHCLK
PGDKIEVVAGEYNIDKKEDTEQRRNVIRTIPHHQYNATINKYSHDIALLELDKPLILNSYVTPICVANRE
YTNIFLKFGSGYVSGWGKVFNKGRQASILQYLRVPLVDRATCLRSTTFTIYNNMFCAGYREGGKDSCEGD
SGGPHVTEVEGTSFLTGIISWGEECAMKGKYGIYTKVSRYVNWIKEKTKLT

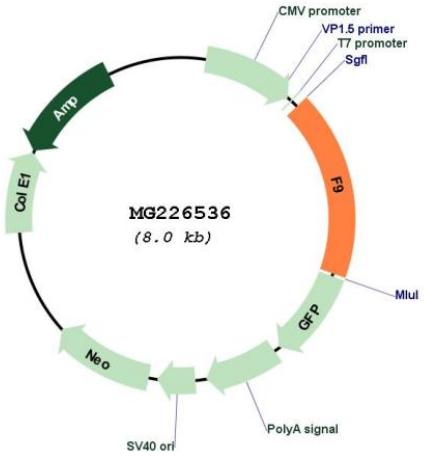
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**




**Plasmid Map:**

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| **ACCN:** | NM_007979 |
| **ORF Size:** | 1413 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). |

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| **Reconstitution Method:** | 1. Centrifuge at 5,000xg for 5min.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_007979.2, NP_032005.1 |
| **RefSeq Size:** | 2733 bp |
| **RefSeq ORF:** | 1416 bp |
| **Locus ID:** | 14071 |
| **UniProt ID:** | P16294 |
| **Cytogenetics:** | X 33.5 cM |
| **Gene Summary:** | This gene encodes a vitamin K-dependent serine protease that plays a critical role in the intrinsic pathway of blood coagulation. The encoded protein is an inactive zymogen that is activated by coagulation factor XIa to generate factor IXa, a heterodimer containing heavy and light chains. In association with factor VIII, membrane phospholipids and calcium ions, factor IXa cleaves the inactive zymogen factor X to generate active factor Xa. Genetic deletion of this gene in mice results in a severe bleeding phenotype. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Apr 2015] |