

Product datasheet for **MG216475**

Hgfac (NM_019447) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hgfac (NM_019447) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Hgfac
Synonyms:	HGF; HGFA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG216475 representing NM_019447
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGGGCGACAGGCCTGGATCTCTAGCCTCTGTCCCTTACCCAGGCCATGTCCCTTCTGTCTGCTCTGCT
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 CGTGTGGCCAATTATGTGGACTGGATCAACGACCGTATTCGACCGCCCAAGCGACCCGCTGGCTACGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG216475 representing NM_019447
 Red=Cloning site Green=Tags(s)

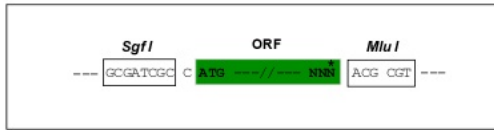
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TRTRPLE - GFP Tag - V

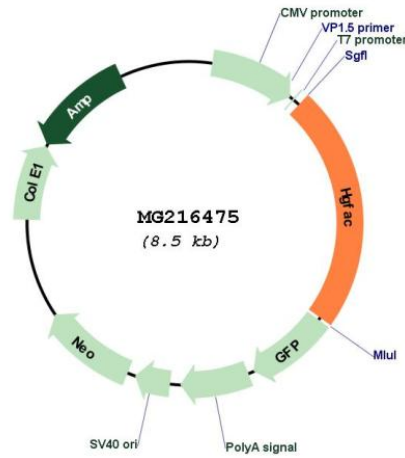
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_019447

ORF Size: 1959 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_019447.3 , NP_062320.2
RefSeq Size:	2103 bp
RefSeq ORF:	1962 bp
Locus ID:	54426
UniProt ID:	Q9R098
Cytogenetics:	5 B2
Gene Summary:	This gene encodes a serine protease enzyme that proteolytically activates hepatocyte growth factor (HGF) and plays a vital role in the regulation of HGF activity in the regeneration and repair of various tissues. The encoded protein is an inactive zymogen that is proteolytically activated to generate a heterodimeric enzyme consisting of a short chain and a long chain linked by a disulfide bridge. Mice lacking the encoded protein display an impairment in mucosal regeneration after injury. [provided by RefSeq, Jul 2015]