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Product datasheet for MR228535

Hgf (NM_001289460) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hgf (NM_001289460) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hgf
Synonyms:	C230052L06Rik; HGF/S; HGF/SF; NK; NK1; NK2; SF; SF/HG; SF/HGF
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR228535 representing NM_001289460 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGATGTGGGGGACCAAACTTCTGCCGGTCCTGTTGCTGCAGCATGTCCTCCTGCACCTCCTCCTGCTTC ATGTCGCCATCCCCTATGCAGAAGGACAGAAGAAAAGAAGAAATACACTTCATGAATTTAAAAAGTCAGC AAAAACTACTCTTACCAAGGAAGACCCATTACTGAAGATTAAAACCAAAAAAGTGAACTCTGCAGATGAG TGTGCCAACAGGTGTATCAGGAACAGGGGCTTTACGTTCACTTGCAAGGCCTTCGTTTTTGATAAGTCAA GAAAACGATGCTACTGGTATCCTTTCAATAGTATGTCAAGTGGAGTGAAAAAAGGGTTTGGCCATGAATT TGACCTCTATGAAAACAAAGACTATATTAGAAACTGCATCATTGGTAAAGGAGGCAGCTATAAAGGGACG GTATCCATCACTAAGAGTGGCATCAAATGCCAGCCTTGGAATTCCATGATCCCCCATGAACACAGCTTTT TGCCTTCGAGCTATCGCGGTAAAGACCTACAGGAAAACTACTGTCGAAATCCTCGAGGGGAAGAAGGGGG ACCCTGGTGTTTCACAAGCAATCCAGAGGTACGCTACGAAGTCTGTGACATTCCTCAGTGTTCAGAAGGT AAA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>MR228535 representing NM_001289460
Red=Cloning site Green=Tags(s)

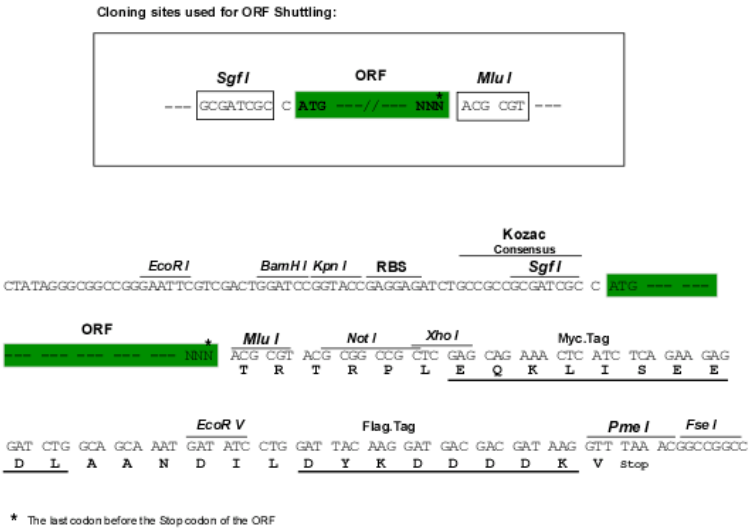
MMWGTKLLPVLLLQHVLLHLLLLHVAIPYAEGQKKRRNTLHEFKKSAKTTLTKEDPLLKIKTKKVNSADE
CANRCIRNRGFTFTCKAFVFDKSRKRCYWYPFNSMSSGVKKGFGHEFDLYENKDYIRNCIIGKGGSYKGT
VSITKSGIKCQPWNSMIPHEHSFLPSSYRGKDLQENYCRNPRGEEGGPWCFTSNPEVRYEVCDIPQCSEG
K

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

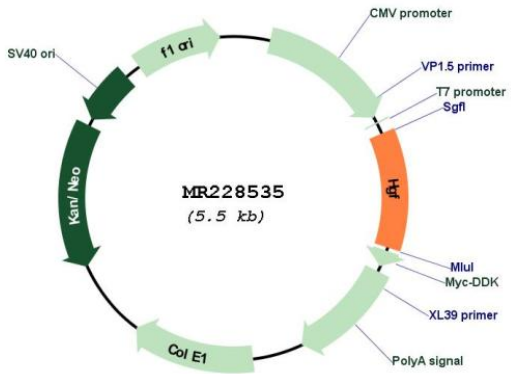
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001289460

ORF Size: 633 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_001289460.2, NP_001276389.1
RefSeq Size:	1633 bp
RefSeq ORF:	636 bp
Locus ID:	15234
UniProt ID:	Q08048
Cytogenetics:	5 7.07 cM
MW:	24.8 kDa
Gene Summary:	This gene encodes a protein that binds to the hepatocyte growth factor receptor to regulate cell growth, cell motility and morphogenesis in numerous cell and tissue types. The encoded preproprotein is proteolytically processed to generate multiple protein products, including the hepatocyte growth factor alpha and beta chains, which heterodimerize to form the mature active protein. Although this protein is a member of the peptidase S1 family of serine proteases, it lacks peptidase activity. Homozygous knockout mice for this gene exhibit embryonic lethality due to impaired development of the placenta and liver. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Sep 2015]