

Product datasheet for **MR227581**

Hgs (NM_008244) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hgs (NM_008244) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hgs
Synonyms:	Hgr; Hrs; tn; ZFYVE8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR227581 representing NM_008244
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGCGAGGCAGCGGCACCTTCGAGCGTCTCCTAGACAAAGCCACCAGCCAGCTTCTGTTGGAGTCAG
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 CTCATCTCCTTCGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
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Protein Sequence:

>MR227581 representing NM_008244

Red=Cloning site Green=Tags(s)

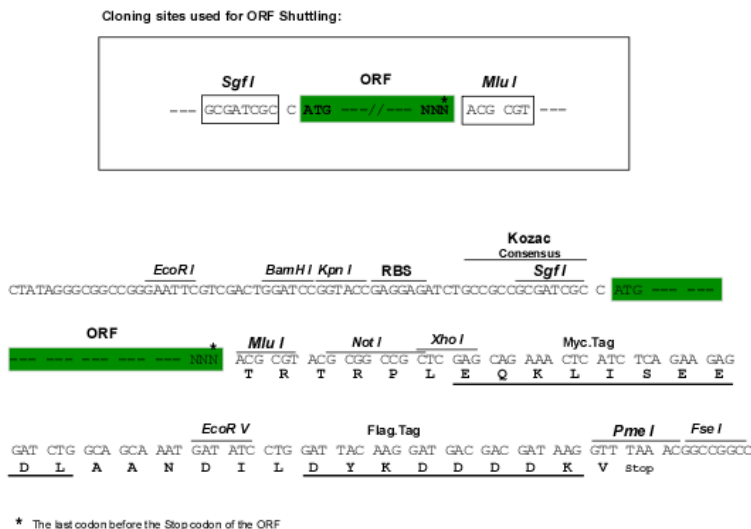
MGRGSGTFERLLDKATSQLLLESDWESILQICDLIRQGDQAKYAVNSIKKKVNDKNPHVALYALEVMES
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 SMGYQYPYNNQNLMTALPGQDASLPAQQPYIPGQQPLYQQMAPSTGPPQQQPPVAQAPAPTQGPPAQGSEAQ
 LISFD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_008244

ORF Size: 2325 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_008244.2](#)

RefSeq Size: 2905 bp

RefSeq ORF: 2328 bp

Locus ID: 15239

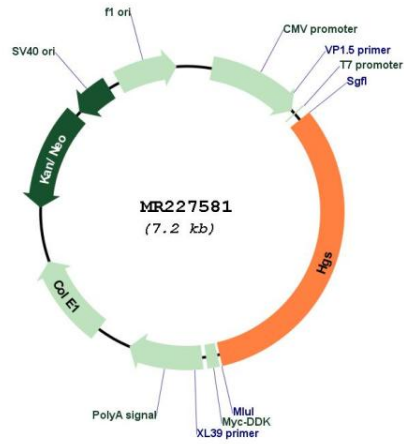
UniProt ID: [Q99LI8](#)

Cytogenetics: 11 84.16 cM

MW: 86.5 kDa

Gene Summary: Involved in intracellular signal transduction mediated by cytokines and growth factors. When associated with STAM, it suppresses DNA signaling upon stimulation by IL-2 and GM-CSF. Could be a direct effector of PI3-kinase in vesicular pathway via early endosomes and may regulate trafficking to early and late endosomes by recruiting clathrin. May concentrate ubiquitinated receptors within clathrin-coated regions. Involved in down-regulation of receptor tyrosine kinase via multivesicular body (MVBs) when complexed with STAM (ESCRT-0 complex). The ESCRT-0 complex binds ubiquitin and acts as sorting machinery that recognizes ubiquitinated receptors and transfers them to further sequential lysosomal sorting/trafficking processes. May contribute to the efficient recruitment of SMADs to the activin receptor complex. Involved in receptor recycling via its association with the CART complex, a multiprotein complex required for efficient transferrin receptor recycling but not for EGFR degradation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR227581