

Product datasheet for **MG227581**

Hgs (NM_008244) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hgs (NM_008244) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Hgs
Synonyms:	Hgr; Hrs; tn; ZFYVE8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG227581 representing NM_008244
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGCGAGGCAGCGGCACCTTCGAGCGTCTCCTAGACAAAGCCACCAGCCAGCTTCTGTTGGAGTCAG
 ACTGGGAGTCCATTCTACAGATCTGCGACTGATCCGTCAGGGGACACACAAGCAAAATATGCTGTAAA
 CTCATCAAGAAGAAGGTTAATGATAAGAACCACACGTGGCTTTGTATGCTCTGGAGGTGATGGAGTCT
 GTGGTAAAGAACTGTGGCCAGACAGTCCATGATGAAGTGGCCAACAACAGACCATGGAAGAAGTGAAGG
 AGCTGCTGAAGAGGCAAGTGAAGTAAATGTTCCGAACAAGATCTTGTACCTGATCCAGGCCCTGGGCACA
 TGCCTCCGGAACGAACCAAGTACAAGTGGTCCAGGACACATACCAGATCATGAAGTGAAGGACAT
 GTCTTCCCTGAATTTAAGGAAAGTATGCCATGTTGCTGCTGAAAGAGCCCTGACTGGGTGGATGCTG
 AGGAATGCCATCGGTGCAGAGTACAGTTTGGGGTGGTGACCCGCAAGCATCACTGCCGAGCATGTGGGCA
 GATCTTCTGTGGCAAGTCTCCTCAAGTACTCCACCATCCCAAGTTCGGCATTGAGAAGGAGGTGCCG
 GTGTGTGAGCCCTGCTATGAGCAGCTGAACAAGAAGGCAGAAGGGGAAGGCTTCTCTACCACTGAGCTGC
 CCCCAGAGTACCTGACCAGCCCCCTGTCACAGCAGTCTCAGCTGCCCCAAAGCGGGATGAGACAGCCCT
 GCAGGAAGAGGAGGAGCTACAGCTGGCTCTGGCCCTATCACAGTCAGAGGCTGAGGAGAAAGAGAGGATG
 AGACAGAAAACAACATATACAGCACATCCAAGGCAGAGCCCACGCCCTTGGCTTCTCTGCGCCCCAG
 CTGGCAGCCTGTATTCTCGCCTGTGAACATCAGCACCTCTGGCTGAGGACATCGACCCTGAGCTTGC
 AAGTACCTCAACCGAACTACTGGGAGAAGAAACAGGAGGAAGCACGGAAGAGCCCCACACCATCTGCA
 CCTGTGCCCTGACAGAGCCTGCTGCCAGCCTGGAGAAGGACATACAGCCCCAACAGCATGGCAGAGG
 CTCTCTTCCAGAGACAGACTCTCAGCCCATAACTCCCTGCAGCGGCCCTTTAGTGAGTACCAGAATGG
 GGAGTCGGAGGAGAGCCATGAGCAGTTCCCTCAAGGCCCTGCAGAATGCCGTGAGCACTTTTGTCAACCGC
 ATGAAGAGCAACCACATGCGGGGACGCAGCATCAACAACGACTCGGCTGTGCTGCTCACTCTTCCAGTCCA
 TCAACACCATGCACCCGAGCTGCTCGAGCTGCTCAACCAGCTGGATGAGCGCAGGCTGTACTACGAGGG
 CCTTCAGGACAAGCTGGCACAGATACGTGACGCCCGAGGGGCTCTGAGCGCCTGCGTGAAGAACACAGG
 GAGAAGCTGCGCCGGCAGCTGAGGAGGCTGAGCGTCAACGCCAGATCCAGCTGGCACAGAACTGGAGA
 TCATGAGACAGAAGAAGCAGGAGTACCTGGAGGTGCAGAGACAGCTAGCTATCCAGCGCCTGCAGGAACA
 GGAGAAGGAACGGCAGATGCGTCTGGAGCAACAGAAGCAGACTGTCCAGATGCGCGCCAGATGCCTGCC
 TTTCCCTTGCTTATGCCAGCTCCAGGCTATGCCACGGCTGGGGTGTACTCTACCAGCCCTCAGGCC
 CAACCAGCTTCCCTGCCACCTTCAGCCCAGCAGGCTCAGTAGAGGGCTCTCCGATGCATGGTGTGTATAT
 GAGCCAGCCAGCCCCAGCCACTGGCCCCCTACCCAGCATGCCTGGCACAACAGCAGATCCCAGCATGGTC
 AGCGCCTACATGTACCAACAGGTGCCCTGGGGCACAGGCAGCCCTCAGGCCAGGCCGGGCCACCA
 CCAGTCTGCCTACTCCTCCTACCAGCCCACCAACCCAGGCTACCAGAGCGTGGCTTCTCAGGCCCC
 ACAGAGCTCCCAGCCATCTCACAGCTCCACAGACCAGCAACATAGGCTACATGGGGAGCCAGCCAATG
 TCCATGGGCTACCAGCCGTACAATATGCAGAATCTCATGACCGCCTTCCCGGCAGGATGCGTCTCTGC
 CAGCCCAGCAGCCCTACATCCAGGGCAGCAGCCCTGTACCAGCAGATGGCCCCAGCACCAGCCCTCC
 CCAGCAGCAACCCCTGTGGCCCAGCAGCGCTACACAGGGACCGCCAGCACAGGGCAGTGAGGCCAG
 CTCATCTCCTTCGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG227581 representing NM_008244
 Red=Cloning site Green=Tags(s)

MGRGSGTFERLLDKATSQLLLES DWESILQICDLIRQGD TQAKYAVNSIKKKVNDKNPHVALYALEVMES
 VVKNCGQTVHDEVANKQ TMEELKELLKRQVEVNV RNKILYLIQAWAHAFRNEPKYKVVQDTYQIMKVEGH
 VFPEFKESDAMFAAERAPDWVDAEECHR CRVQFGVVTRKHHCACGQIFCGKCSSKYSTIPKFGIEKEVR
 VCEPCYEQLNKKAE GKASSTTELPPEYL TSPLSQSQSLPPKRDE TALQEEEEQLALALSQSEAE EKERM
 RQKTTYTAHPKAEPTPLASSAPPAGSLYSSPVNSSAPLAEDIDPELARYLNRNYWEKKQEEARKSPTPSA
 PVPLTEPAAQPGEGHTAPNSMAEAPLPETDSQPIITPCSGPFSEYQNGESEESHEQFLKALQNAVSTFVNR
 MKNHMRGRSITNDSAVLSL FQSINTMHPQLLELLNQLDERRLYEGLQDKLAQIRDARGAL SALREEHR
 EKLRRAAEEAERQRQIQ LAQKLEIMRQKKQEYLEVQRQLAIQRLQE QEKERQMRLEQQKQTVQMR AQMPA
 FPLPYAQLQAMPTAGGVL YQPSGPTSFPATF SPAGSVEGSPMHGVYMSQPAPATGPYPSPMPTTADPSMV
 SAYMYPTGAPGAQAAPQA QAGPTTSPAYSSYQPTPTPGYQSVASQAPQSLPAISQPPQTSNIGYMG SQPM
 SMGYQPYNMQLMTALPGQDASLPAQQPYIPGQQFLYQQMAPSTGPPQQQPPVAQPAPTQGPPAQGSEAQ
 LISFD

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_008244

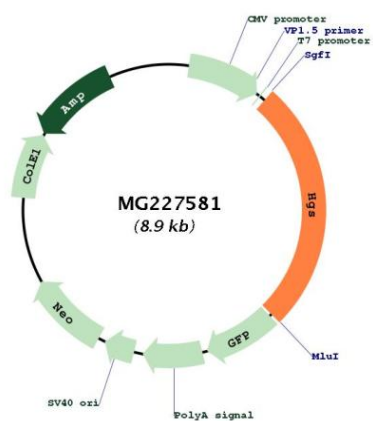
ORF Size: 2325 bp

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:	<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_008244.2
RefSeq Size:	2905 bp
RefSeq ORF:	2328 bp
Locus ID:	15239
UniProt ID:	Q99L18
Cytogenetics:	11 84.16 cM
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 MG227581