

Product datasheet for **MR210580**

Hgs (NM_001159328) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hgs (NM_001159328) 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:

>MR210580 representing NM_001159328
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGGCGAGGCAGCGGCACCTTCGAGCGTCTCCTAGACAAAGCCACCAGCCAGCTTCTGTTGGAGACAG
 ACTGGGAGTCCATTCTACAGATCTGCGACTGATCCGTCAGGGGGACACACAAGCAAAATATGCTGTAAA
 CTCCATCAAGAAGAAGGTTAATGATAAGAACCACACGTGGCTTTGTATGCTCTGGAGGTGATGGAGTCT
 GTGGTAAAGAAGTGTGGCCAGACAGTCCATGATGAAGTGGCCAACAACAGACCATGGAAGAAGTGAAGG
 AGCTGCTGAAGAGGCAAGTGAAGTAAATGTTCCGAACAAGATCTTGTACCTGATCCAGGCCCTGGGCACA
 TGCCTCCGGAACGAACCAAGTACAAGTGGTCCAGGACACATACCAGATCATGAAGGTAGAAGGACAT
 GTCTTCCCTGAATTTAAGGAAAGTATGCCATGTTGCTGCTGAAAGAGCCCTGACTGGGTGGATGCTG
 AGGAATGCCATCGGTGCAGAGTACAGTTTGGGGTGGTGACCCGCAAGCATCACTGCCGAGCATGTGGGCA
 GATCTTCTGTGGCAAGTCTCCTCAAGTACTCCACCATCCCCAAGTTCGGCATTGAGAAGGAGGTGCCG
 GTGTGTGAGCCCTGCTATGAGCAGCTGAACAAGAAGGCAGAAGGGGAAGGCTTCTCTACCACTGAGCTGC
 CCCCAGAGTACCTGACCAGCCCCCTGTCACAGCAGTCTCAGCTGCCCCAAAGCGGGATGAGACAGCCCT
 GCAGGAAGAGGAGGAGCTACAGCTGGCTCTGGCCCTATCACAGTCAGAGGCTGAGGAGAAAGAGAGGATG
 AGACAGAAAACAACATATACAGCACATCCAAGGCAGAGCCCACGCCCTTGGCTTCTCTGCGCCCCCAG
 CTGGCAGCCTGTATTCTCGCCTGTGAAGTCAACAGCCTCTGGCTGAGGACATCGACCCTGAGCTTGC
 AAGATACCTCAACCGAACTACTGGGAGAAGAAACAGGAGGAAGCACGGAAGAGCCCCACACCATCTGCA
 CCTGTGCCCTGACAGAGCCTGCTGCCAGCCTGGAGAAGGACATACAGCCCCAACAGCATGGCAGAGG
 CTCTCTTCCAGAGACAGACTCTCAGCCATAACTCCCTGCAGCGGCCCTTTAGTGAGCAGTACCAGAA
 TGGGGAGTCGGAGGAGAGCCATGAGCAGTTCCTCAAGGCCCTGCAGAATGCCGTGAGCACTTTTGTCAAC
 CGCATGAAGAGCAACCACATGCGGGGACGAGCATCACCAACGACTCGGGTGTGCTGCTACTCTTCCAGT
 CCATCAACACCATGCACCCGAGCTGCTCGAGTCTCAACCAGCTGGATGAGCGCAGGCTGACTACGA
 GGGCCTTCAGGACAAGCTGGCACAGATACGTGACGCCCGAGGGGCTCTGAGCGCCTGCGTGAAGAACAC
 AGGAGAAAGCTGCGCCGGGCAGCTGAGGAGGCTGAGCGTCAACGCCAGATCCAGCTGGCACAGAACTGG
 AGATCATGAGACAGAAGAAGCAGGAGTACCTGGAGGTGCAGAGACAGCTAGCTATCCAGCGCCTGCAGGA
 ACAGGAGAAGGAACGGCAGATGCGTCTGGAGCAACAGAAGCAGACTGTCCAGATGCGCGCCAGATGCCT
 GCCTTTCCCTTGCTTATGCCAGCTCCAGGCTATGCCACGGCTGGGGGTGACTCTACCAGCCCTCAG
 GCCAACCAGCTTCCCTGCCACCTCAGCCAGCAGGCTCAGTAGAGGGCTCTCCGATGCATGGTGTGTA
 TATGAGCCAGCCAGCCCCAGCCACTGGCCCTACCCAGCATGCCTGGCACAACAGCAGATCCCAGCATG
 GTCAGCGCCTACATGTACCCAACAGGTGCCCTGGGGCACAGGCAGCCCTCAGGCCCAGGCCGGGCCCA
 CCACCAGTCTGCTACTCCTCTACCAGCCACACCAACCCAGGCTACCAGAGCGTGGCTTCTCAGGC
 CCCACAGAGCCTCCAGCCATCTCACAGCTCCACAGACCAGCAACATAGGCTACATGGGGAGCCAGCCA
 ATGTCCATGGGCTACCAGCCGTACAATATGCAGAATCTCATGACCGCCCTTCCCGGCAGGATGCGTCTC
 TGCCAGCCAGCAGCCCTACATCCAGGGCAGCAGCCCTGTACCAGCAGATGGCCCCAGCACCAGGCC
 TCCCCAGCAGCAACCCCTGTGGCCAGCCAGCGCCTACACAGGGACCGCCAGCACAGGGCAGTGAGGCC
 CAGCTCATCTCCTTTGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210580 representing NM_001159328
 Red=Cloning site Green=Tags(s)

MGRGSGTFERLLDKATSQLLLETDWESILQICDLIRQGDQAKYAVNSIKKKVNDKNPHVALYALEVMES
 VVKNCGQTVHDEVANKQTMEEKELLKRQVEVNRNKILYLIQAWAHAFRNEPKYVVQDTYQIMKVEGH
 VFPEFKESDAMFAAERAPDWDAEECHRQVQFVVTRKHHCRACGQIFCGKCSSKYSTIPKFGIEKEVR
 VCEPCYEQLNKKAEKGASSTTELPPEYLTSPLSQSQQLPKRDETALQEEEEQLALALSQSEAEKERM
 RQKTTYTAHPKAEPTPLASSAPPAGSLYSSPVNSSAPLAEDIDPELARYLNRNYWEKKQEEARKSPTPSA
 PVPLTEPAAQPGEGHTAPNSMAEAPLPETDSQPITPCSGPFSEYQNGESEEESHEQFLKALQNAVSTFVN
 RMKSNHMRGRSITNDSAVLSLFQSINTMHPQLLELLNQLDERRLYYEGLQDKLAQIRDARGALSALREEH
 REKLRRAAEEAERQRIQLAQKLEIMRQKKQEYLEVQRQLAIQRLQEQEKERQMRLEQQKQTVQMRQMP
 AFPLPYAQLQAMPTAGGVLYQPSGPTSFPAATFSPAGSVEGSPMHGVYMSQPAPATGPYPSPMGTTADPSM
 VSAYMYPTGAPGAQAAPQAQAGPTTSPAYSSYQPTPTPGYQSVASQAPQSLPAISQPPQTSNIGYMGSQP
 MSMGYQPYNMQLMTALPGQDASLPAQQPYIPGQQPLYQQMAPSTGPPQQQPPVAQPAPTQGPPAQGSEA
 QLISFD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9037_b06.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:



ACCN: NM_001159328

ORF Size: 2328 bp

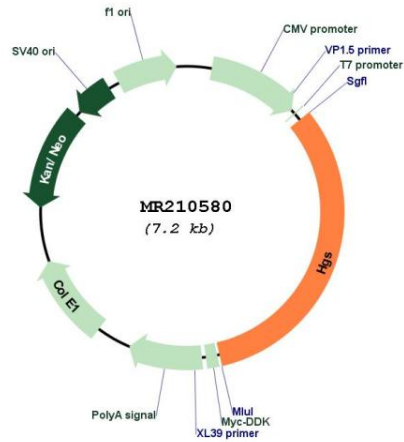
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<u>NM_001159328.1, NP_001152800.1</u>
RefSeq Size:	2908 bp
RefSeq ORF:	2331 bp
Locus ID:	15239
UniProt ID:	<u>Q99LI8</u>
Cytogenetics:	11 84.16 cM
MW:	86.6 kDa
Gene Summary:	<p>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]</p>

Product images:



Circular map for MR210580