

Product datasheet for **RG200609**

HGS (NM_004712) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HGS (NM_004712) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HGS
Synonyms:	HRS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG200609 representing NM_004712
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGGCGAGGCAGCGGCACCTTCGAGCGTCTCCTAGACAAGCGGACCAGCCAGCTCCTGTTGGAGACAG
 ATTGGGAGTCCATTTTGCAGATCTGCGACTGATCCGCCAAGGGGACACACAAGCAAAATATGCTGTGAA
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 CTCTGCCACCCCAGCAGCCCTACATCGCGGGCAGCAGCCATGTACCAGCAGATGGCACCCCTCTGGCGG
 TCCCCCAGCAGCAGCCCCCGTGGCCAGCAACCGCAGGCACAGGGCCCGCCGCACAGGGCAGCGAG
 GCCAGCTCATTTCATTTCGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG200609 representing NM_004712
 Red=Cloning site Green=Tags(s)

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MGRGSGTFERLLDKATSQLLLETDWESILQICDLIRQGDQAKYAVNSIKKKVNDKNPHVALYALEVMES
VVKNCGQTVHDEVANKQTMEECLKDLLKRQVEVNVNRNKILYLIQAWAHAFRNEPKYKVVQDTYQIMKVEGH
VFPEFKESDAMFAAERAPDWVDAEECHRQVQFGVMTRKHHCACGQIFCGKCSSKYSTIPKFGIEKEVR
VCEPCYEQLNKRAEGKATSTTELPPEYLTSPLSQSQQLPPKRDETALQEEEEELQLALALSQSEAEKERL
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NRMKSNHMRGRSITNDSAVLSLFQSIINGMHPQLLELLNQLDERRLYEGLQDKLAQIRDARGALSALREE
HREKLRRAAEEAERQRQIQLAQKLEIMRQKKQEYLEVQRQLAIQRLQEQEKERQMRLEQQKQTVQMRAQM
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MVSAYMPAGATGAQAAPQAQAGPTASPAYSSYQPTPTAGYQNVASQAPQSLPAISQPPQSSTMGYMGSQ
SVSMGYQPYNMQLMTTLP SQDASLPPQPYIAGQQPMYQQMAPSGGPPQQQPPVAQQPQAQGPPAQGSE
AQLISFD
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004712

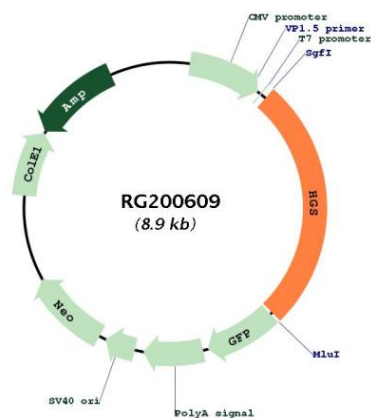
ORF Size: 2331 bp

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_004712.5</u>
RefSeq Size:	2926 bp
RefSeq ORF:	2334 bp
Locus ID:	9146
UniProt ID:	<u>O14964</u>
Cytogenetics:	17q25.3
Domains:	FYVE, VHS, UIM
Protein Families:	Druggable Genome
Protein Pathways:	Endocytosis
Gene Summary:	The protein encoded by this gene regulates endosomal sorting and plays a critical role in the recycling and degradation of membrane receptors. The encoded protein sorts monoubiquitinated membrane proteins into the multivesicular body, targeting these proteins for lysosome-dependent degradation. [provided by RefSeq, Dec 2010]

Product images:



Circular map for RG200609