

Product datasheet for **RR214294**

Hgd (NM_001012145) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Hgd (NM_001012145) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Hgd
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR214294 representing NM_001012145
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGCAGAGTTAAAGTACATTTCTGGATTTGGGAATGAGTGTGCTTCAGAGGATCCTCGCTGCCAGGCT
CCCTGCCGAAAGGACAGAATAATCCTCAGATCTGCCCCACAATCTACGCTGAGCAGCTCTCGGGATC
GGCCTTCACTTGTCCACGGAACCAATAAGAGAAGCTGGCTATACAGAATTCTCCCTTCAGTTTCTCAC
AAGCCATTTGCGTCCATTGACCAAGGCCACATCAACCACAACCTGGGATGAAGTTGGCCCTGATCCTAAC
AGCTTAGATGGAAACCGTTTGGATTCCAAAAGCATGTCAGAAGAAAGTGGACTTTGTGAGTGGCTTGCA
CACCTTATGTGGAGCAGGAGACATCAGGTCTAACCAATGGGCTTGTGTGCATATCTTCTGTGTAATCC
CCCATGGAGAACAGATGTTTTTACAATTCAGATGGGGATTTCTGATTGTTCCCCAGAAAGGGAAGCTTC
TCATCTACACAGAGTTGGCAAGATGTTCTGCAGCCCAATGAGATCTGCGTCATTCAGAGAGGAATGAG
ATTCAGTGTGATGTCTCGAGGAGACCAGGGTTACATCCTGGAAGTCTACGGTGTCCACTTCGAGCTA
CCTGACCTAGGACCCATCGGAGCAAATGGCTTGGCCAATCCTCGAGATTTCTTGATCCCTGTTGCTTGGT
ATGAAGATCGTCAAGTGCCGGTGGTTTACCCTGATTAATAAATACCAGGGAAAGCTGTTTGTCTCCAA
ACAGGATGTCTCCCCCTCAATGTCGTGGCCTGGCATGGAACTATACACCCTACAAGTACAACCTCGAG
AACTTCATGGTCATCAATGCGGTGGCCTTTGACCATGCAGATCCTTCCATTTTACAGTGTGACCGCCA
AGTCTCTCCGACCTGGAGTGGCCATTGCTGACTTTGTGATCTTCCCACCTCGGTGGGGGGTTGCAGATAA
AACCTTCAGACCTCCTTATTACCACAGGAACTGCATGAGTGTGATTCATGGGACTCATCAAAGTCACTAT
GAGGCAAAGCAAGGTGGATTCTGCCAGGGGGAGGAGTCTGCACAGTGCATGACCCCTCATGGCCCCG
ACGCACTGCTTTGAGAAGGCCAGCAAGGCCAACTGGAACCTGAGAGGATAGCAGACGGCACCATGGC
ATTTATGTTTGAATCTTCTTGTGTTGGCAGTCAACAAGTGGGACTCAAGACCTGTGGTTGTTGGAT
GAGGACTACTACAAATGCTGGGAGCCTCAGGCCCACTTACCCCCACTTCCAGGAGCCCAACAGAGC
CTAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR214294 representing NM_001012145
 Red=Cloning site Green=Tags(s)

MAELKYISGFGNECASEDPRCPGSLPKGQNNPQICPYNLVYAEQLSGSAFTCPRNTNKRSWLYRILPSVSH
 KPFASIDQGHINHNWDEVGPDNQLRWKPF EIPKACQKKVDFVSLHTLCGAGDIRSNNGLAVHIFLCNS
 PMENRCFYNSDGDFLIVPQKGLLIYTEFGKMF LQPNEICVIQRGMRFSDVVFEE TRGYILEVYGVHFEL
 PDLGPIGANLANPRDFLIPVAWYEDRQVPGGF TVINKYQGKLFASKQDVSPFNVVAWHGNYTPYKYNLE
 NFMVINAVAFDHADPSIFTVLTAKSLRPGVAIADFVIFPPRWGVADKTRPPYYHRNCMSEFMGLIKGHY
 EAKQGGFLPGGSLHSAMTPHGPADACFEKASKAKLEPERIADGTMAFMFESSLSLAVTKWGLKTCGCLD
 EDYYKCWEPLQAHFTPTSRSPTEPK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

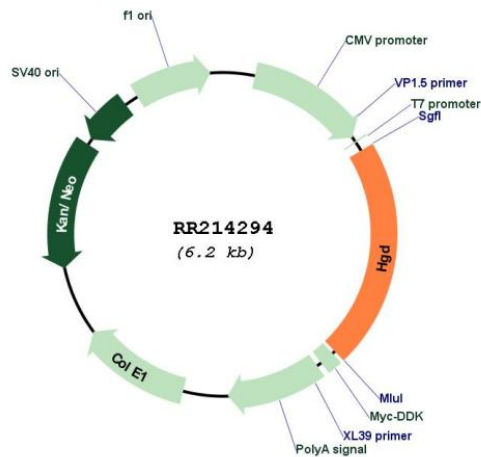
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001012145
ORF Size:	1335 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_001012145.1 , NP_001012145.1
RefSeq Size:	1698 bp
RefSeq ORF:	1338 bp
Locus ID:	360719
Cytogenetics:	11q21
MW:	49.9 kDa