

Product datasheet for **RR210580**

Hck (NM_013185) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hck (NM_013185) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hck
Synonyms:	Hctk; p56Hck; p59Hck
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR210580 representing NM_013185
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

CTGGGGGGTCTGTCGAGCTGCGAGGATCCGGGCTGCCCGGAGGCGAAGGGCGGGTGCCAGGATGGGAT
 GTGTGAAGTCCAGGTTCCCTCCGAGAAGGAAGCAAGGCCTCAAAAATAGAGCCAAATGCCAACAGAAAGG
 CCCTGTGTATGTGCCGGATCCCACGTCCCTAAGAAGCTGGGACCGAACAGCATCAACAGCCTGCCCCCG
 GGGTCTGTGGAGGGCTCTGAGGACACCATTGTGGTTCGACTGTACGACTATGAGGCCATTACCCTGAAG
 ACCTCAGCTTCCAGAAGGGAGACCAGATGGTGGTTCTGGAGGAGTCTGGGAGTGGTGGAAAGGCCGTTT
 CCTGGCTACCAAGAAAGAAGGCTATATCCCAAGCAATTATGTAGCTCGAGTTAACTCTTTGGAGACTGAG
 GAGTGGTTCTTCAAGGTATCAGCCGGAAGGATGCAGAGCGCCACCTGCTGGCTCCCGGGAACATGCTGG
 GCTCCTTCATGATCCGGGACAGTGAAGCATTATAAAATCCGGACTGGACAGTGGAGGCTTCTACATCTCTCCG
 CCAGCACGGAGACACGGTGAAGCATTATAAAATCCGGACTGGACAGTGGAGGCTTCTACATCTCTCCG
 AGGAGCACCTTCAGCAGCCTGCAGGAATTTGCTGTCCTACAAGAAGGGGAAGGATGGGCTCTGCCAGA
 AGCTGTACAGTGCCTGTGTCTCCCAAACCCAGAAGCCATGGGAGAAAAGATGCCTGGGAGATTCTCG
 AGAATCCCTCCAGATGGAGAAGAACTGGGAGCCGGCAGTTTGGAGAAGTGTGGATGGCCACCTACAAC
 AAGCACACCAAAGTGGCGGTGAAGACAATGAAGCCAGGGAGCATGTCTGTGGAGGCTTCTGTCAGAGG
 CCAACCTGATGAAGACGTTACAGCATGATAAATGGTGAAGCTGCACGCCGTGGTCTCTCAGGAGCCAT
 CTTTATTGTCACCGAGTTCATGGCCAAAGGAAGCCTGCTGGACTTTCTCAAGAGTGAAGAAGGCAGCAAG
 CAGCCACTGCCAAAACCTATTGACTTCTCAGCCAGATTTAGAGGGCATGGCTTTCATTGAGCAGAGGA
 ACTACTCCACCGAGACCTCCGGGCTGCCAACATCTTGGTTTCTGCATCACTGGTGTAAAGATCGCTGA
 CTTTGGACTGGCACGGATCATCGAGGACAATGAGTACACAGCTCGGGAAGGAGCCAAGTTCCCATCAAG
 TGGACAGCTCCTGAAGCCATCAACTTTGGCTCCTTACCATCAAGTCAGATGTCTGGTCTTTGGTATCC
 TGCTGATGGAAATCGTCACCTACGGCCGGATCCCTTACCAGGTATGTCAAACCCAGAGGTATTGAGC
 ACTAGAGCATGGGTACCGTATGCCTCGACCAGATAACTGCCAGAGGAGCTCTACAGTATCATGATCCGC
 TGCTGGAAGAACCGTCCAGAGGAACGGCCACTTTCGAATACATCCAGAGCGTGTGGATGACTTCTACA
 CGGCCACTGAGAGCCAGTATCAGCAGCAACCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR210580 representing NM_013185
 Red=Cloning site Green=Tags(s)

LGGRSSCEDPGCPRGEGRVPRMGCVKSRFLREGSKASKIEPNANQKGPVYVPDPTSPKCLGPNINSINLPP
 GVVEGSEDTIVVALYDYEAIHREDLSFQKGDQMVVLEESGEWWKARSLATKKEGYIPSNYVARVNSLETE
 EWFFKGISRKDAERHLLAPGNMLGSFMIRDSETTKGSYSLSVRDFDPQHGDVVKHYKIRTLDSSGFYISP
 RSTFSSLQELVHYKKGKDGKLCQKLSVPCVSPKPQKPEKDAWEIPRESLQMEKLAGAGQFGEVWMATYN
 KHTKVAVKTMKPGSMSVEAFLAEANLTKLQHDKLKLVHVVVSQEPFIVTEFMAKGSLLDFLKSEEGSK
 QPLPKLIDFSAQISEGMAFIEQRNYIHRDLRAANILVSAFLVCKIADFLARIIEDNEYTAREGAKFPIK
 WTAPAEINFGSFTIKSDVVSFGILLMEIVTYGRIPYPGMSNPEVIRALEHGYRMPRPDNCPEELYSIMIR
 CWKNRPEERPTFEYIQSVLDDFYTATESQYQQQP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

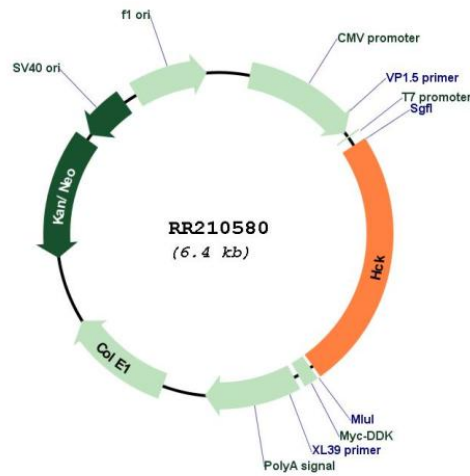
Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:	NM_013185
ORF Size:	1572 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_013185.3 , NP_037317.2
RefSeq Size:	2081 bp
RefSeq ORF:	1575 bp
Locus ID:	25734
UniProt ID:	P50545
Cytogenetics:	3q41
MW:	59.1 kDa
Gene Summary:	The protein encoded by this gene is a protein-tyrosine kinase that is predominantly expressed in hemopoietic cell types. The encoded protein may help couple the Fc receptor to the activation of the respiratory burst. In addition, it may play a role in neutrophil migration and in the degranulation of neutrophils. Alternate translation initiation site usage, including a non-AUG (CUG) codon, results in the production of two different isoforms in human and mouse. Based on strong sequence conservation amongst these species, this may also be true for rat. [provided by RefSeq, Jul 2008]