

Product datasheet for **RR210275**

Hace1 (NM_001108539) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hace1 (NM_001108539) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hace1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>RR210275 representing NM_001108539
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGAGAGCGATGGAGCAGCTCAACCGTCTGACGCGCTCGCTGCGCCGCGCGCACCGTGGAGCTGC
 CCGAGGATAACGAGACTGCTGTTTACACATTAATGCCAATGGTGTGGCGGATCAGCACAGGTCTGTTTC
 TGAACCTCTATCAAATCAAATTTGATGTCAATTATGCATTTGGACGTGTGAAGAGAAGCTTGCTTCAC
 ATTGCAGCAAAGTGGATCTGTGGAGTCTTGGTTCTTCTGTTAAAGAAAGGAGCAAACCCCAACTACC
 AAGACATTTAGGCTGTACGCCCTTCTCTGGCCGCTAGGAACGGACAGAAGAAATGCATGAGTAAATT
 ACTGGAGTACAGTGCAGACGTCAACATTTGCAATAATGAAGGCCTTACCGCAATCCACTGGCTGGCTGTG
 AATGGAAGGACAGAGCTACTCCATGACCTGGTGCAGCACGTACCGGATGTGGATGTGGAGGATGCAATGG
 GGCAGACAGCATTACATGTGCCCTGCCAGAACGGGCACAAAACGACCGTGCAGTGTCTGCTGGACAGCGG
 TGCTGACATCAACCGGCCGAATGTGGCAGGAGCTACGCCACTGTACTTTGCTTGCAGTCAATGGCCAGAGA
 GATACTGCGCAGATTTCTCTATTACGAGGAGCCAAATATTTACCAGATAAAAACGGAGTAACCCCTCTGG
 ACCTGTGTGTGCAGGGTGGCTATGGACAGACTTGCGAAGTGTAAATTCAGTATCACCCAGGCTTTTCCA
 GACGATTGTTCAAATGACGCAGAATGAAGACCTTCGGGAGAACATGTTACGGCAAGTTCTGCAGCATTTG
 TCTCAGCAGAGTGAAGCCAGTACCTAAAGATCCTGACAGGTCTTGTGAAGTTGCTACAACAAATGGCC
 AATAACTGCTTAGTCTGTCCAGCAGCTACGAGGCGCAGATGAAGAGCCTCCTGCGGATCGTGAGGATCTT
 CTGCCACGTCTCCGATTTGGCCCTCGTCTCCAGTAACGGCATGGATATGGGCTACAATGGGAATAAG
 ACTCCAAGGAGCCAGGTGTTCAAGCCTTTGGAATTGCTTTGGCACTCTCTGGATGAGTGGTTGGTTTTAA
 TAGCCACAGAATTAATGAAGAACAAGAGGACTCAGCGGATATCACCTCCATTTTACTGAAACAGAAAGG
 CCAGGATCAAGAGGCCTCTTGTATTTTCAGCGTTTGGAGCCACCAGGACCTGGGAGCTATGAACGCCTGTCC
 ACTGGTCCCGGGGAATCAAACAGATGTGCTTGGCGGGAAGCAGGAAGCCAGTGCAGGACTGTCAGGATG
 TCATTTCTGTGACGGCAACCGGCTAAGTGTGCTCATTCAAGCCTTTTACATGTGCTGCTCTGTGAGAT
 GCCTCCAGGAATGACGTGCCTCGGTTCAATGAGTTTGTCTGCAAGCATGATGAAGTGTAAAGTGTCTT
 GTGAATAGAAATCCAAAATTAATTTGACCATTTTCACTTTCTTCTTGAATGCCTGAACTGATGTCGA
 GATTTCATGCACATCATAAAGGCACAGCCATTCAAAGACCGCTGTGAATGGTTCTATGAGCATTTGCACTC
 AGGACAGCCAGACTCAGACATGGTGCACAGACCAGTGAAGTGAACGACATTCTCCTGGTTCACAGAGAT
 TCTATTTTAGGAGTAGCTGTGAAATCGTATCAAAGCCAACTGTCAAAGCTGAAGCAGGGGATCGCTG
 TGCCTTTTCATGGAGAGGAAGGCATGGGTCAAGGTGTTGTACGTGAATGGTTTGATATTCTGTCTAATGA
 GATAGTCAATCCTGACTATGCACTGTTTACCCAGTCAGCAGATGGAACAATTTTTCAGCCCAATAGCAAC
 TCCTATGTCAATCCTGATCACTTGAATTTTCCGGTTTGTGGACAGATCTTGGGATTAGCTTTGAATC
 ACAGGCAGTTGGTCAATATTTACTTTCACACGATCCTTCTACAAAACACATTTCTGGTATTCTGTGAATTA
 CCAAGATGTAGCGTCTATCGATCCAGAATATGCCAAAAATCTGCAGTGGATTTTAGACAATGACATTAGT
 GACCTGGGTCTAGAAGTACTTTCTCTGTTGAGACTGATGTGTTGGAGCTATGGAAGAGGTACCGTTAA
 AGCCTGGGGTGGAAATTTCTTGTGACACAAAATAACAAAGCGGAGTACGTCCAGCTGGTTACTGAAC
 CCGGATGACAAGAGCCATTGAGCCTCAGATCAATGCGTTTTTACAGGGTTTCCATATGTTTCAATCCCTCCT
 TCCCTCATACAGCTGTTTCGACGAGTATGAATTGGAGCTACTGCTCTCTGGCATGCCGGAATTTGAGGTGA
 ATGATTGGATCAAAAATACAGAATACACAAGTGGCTATGAAAGGGAAGATCCAGTTATTCAGTGGTTCTG
 GGAGGTTGTGGAGGACATGACTCAAGAAGAGCGGGTCTTCTCTTACAGTTCTGACTGGCAGTTCCAGG
 GTCCCGCATGGTGGCTTTGCCAATATCATGGGTGGCAGTGGTTTGCAAAATTTACAATTGCTGTGTC
 CATATACTCCAAATCTTTTACCAACTTCCAGCACGTGCATCAACATGCTCAAGTTACCTGAATACCCAAG
 TAAAGAGATCCTCAAGGACAGACTCCTCGTAGCTCTGCATTGTGGCAGCTACGGCTATACAATGGCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTTAA

Protein Sequence: >RR210275 representing NM_001108539
Red=Cloning site Green=Tags(s)

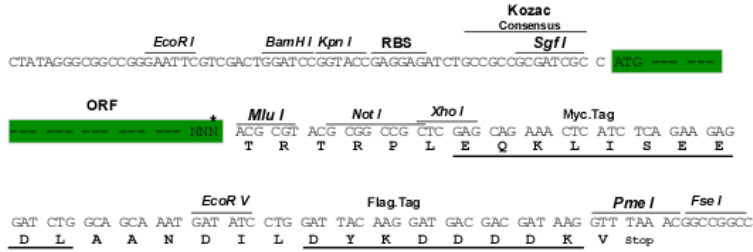
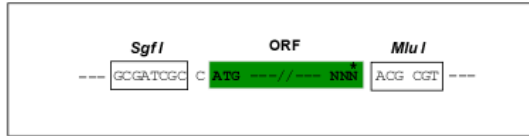
MERAMEQLNRLTRSLRRARTVELPEDNETAVYTLMPVMADQHRSVSELLSNSKFDVNYAFGRVKRSLH
IAANCGSVECLVLLLKKGANPNYQDISGCTPLHLAARNGQKKCMSKLEYSADVNICNEGLTAIHWLAV
NGRTELLHDLVQHVTVDVEDAMGQ TALHVACQNGHKTTVQCLLD SGADINRPNVAGATPLYFACSHGQR
DTAQIILLRGAKYLPDKNGVTPLDLCVQGGYGQTCEVLIQYHPRLFQTIVQMTQNE DLRENMLRQVLQHL
SQQSESQYLKILTGLAEVATTNGHKLLSLSSSYEAQMKSLLRIVRIFCHVFRIGPSSPSNGMDMGYNGK
TPRSQVFKPLELLWHSLEWLVLIAATELMKNKEDSADITSILLKQKGDQEQEASCI SAFEPGPGSYERLS
TGPGESKPDVLAGKQEASADCQDVISVTANRLSAVIQAFYMCCSCQMPPGMTSPRFIEFVCKHDEVKCF
VNRNPKIIFDHFHFLLECEPMSRFMHIKAQPFKDRCEWFYEHLHSGQPDSDMVHRPVSENDILLVHRD
SIFRSSCEIVSKANCAKLGQIAVRFHGEEGMGQGVVREWF DILSNEIVNPDYALFTQSADGTTFPNSN
SYVNPDLNRYFRFAGQILGLALNHRQLVNIYFTRSFYKHILGIPVNYQDVASIDPEYAKNLQWILDNDIS
DLGLELTF SVETDVFGAMEEVLPKPGGGSILVTQNNKAEYVQLVTELRMTRAIQPQINAF LQGFHMFIPP
SLIQLFDEYELELLL SGMPEIDVNDWIKNTEYTSGYEREDPVIQWFWEVVEDMTQEERVLLLQFVTGSSR
VPHGGFANIMGGSLQNF TIAAVPYTPNLLPTSSTCINMLKLPEYPSKEILKDRLLVALHCGSYGYTMA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-Mlul

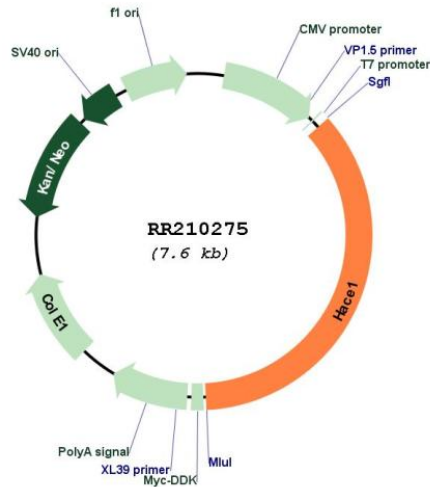
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:	NM_001108539
ORF Size:	2727 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_001108539.3 , NP_001102009.2
RefSeq Size:	3441 bp
RefSeq ORF:	2730 bp
Locus ID:	361866
UniProt ID:	D3ZBM7
Cytogenetics:	20q13
MW:	102.2 kDa
Gene Summary:	E3 ubiquitin-protein ligase involved in Golgi membrane fusion and regulation of small GTPases. Acts as a regulator of Golgi membrane dynamics during the cell cycle: recruited to Golgi membrane by Rab proteins and regulates postmitotic Golgi membrane fusion. Acts by mediating ubiquitination during mitotic Golgi disassembly, ubiquitination serving as a signal for Golgi reassembly later, after cell division. Specifically interacts with GTP-bound RAC1, mediating ubiquitination and subsequent degradation of active RAC1, thereby playing a role in host defense against pathogens. May also act as a transcription regulator via its interaction with RARB.[UniProtKB/Swiss-Prot Function]