

Product datasheet for **RN210275**

Hace1 (NM_001108539) Rat Untagged Clone

Product data:

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



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Fully Sequenced ORF: >RN210275 representing NM_001108539
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGAGAGCGATGGAGCAGCTCAACCGTCTGACGCGCTCGCTGCGCCGCGCGCACCCGTGGAGCTGC
 CCGAGGATAACGAGACTGCTGTTTACACATTAATGCCAATGGTGTATGGCGGATCAGCACAGGTCTGTTTC
 TGAACCTCTATCAAATCAAATTTGATGTCAATTATGCATTTGGACGTGTGAAGAGAAGCTTGCTTCAC
 ATTGCAGCAAAGTGTGGATCTGTGGAGTCTTGGTTCTTCTGTTAAAGAAAGGAGCAAACCCCAACTACC
 AAGACATTTAGGCTGTACGCCCTTACTGCGCCGTAGGAACGGACAGAAGAAATGCATGAGTAAATT
 ACTGGAGTACAGTGCAGACGTCAACATTTGCAATAATGAAGGCCTTACCGCAATCCACTGGCTGGCTGTG
 AATGGAAGGACAGAGCTACTCCATGACCTGGTGCAGCACGTACCGGATGTGGATGTGGAGGATGCAATGG
 GGCAGACAGCATTACATGTGCCCTGCCAGAACGGGCACAAAACGACCGTGCAGTGTCTGCTGGACAGCGG
 TGCTGACATCAACCGGCCGAATGTGGCAGGAGCTACGCCACTGTACTTTGCTTGCAGTATGCCCAGAGA
 GATACTGCGCAGATTTCTCTATTACGAGGAGCCAAATATTTACCAGATAAAAACGGAGTAACCCCTCTGG
 ACCTGTGTGTGCAGGGTGGCTATGGACAGACTTGCGAAGTGTAAATTCAGTATCACCCCAGGCTTTTCCA
 GACGATTGTTCAAATGACGCAGAATGAAGACCTTCGGGAGAACATGTTACGGCAAGTTCTGCAGCATTTG
 TCTCAGCAGAGTGAAGCCAGTACCTAAAGATCCTGACAGGTCTTGTGAAGTTGCTACAACAAATGGCC
 ATAAACTGCTTAGTCTGTCCAGCAGCTACGAGGCGCAGATGAAGAGCCTCCTGCGGATCGTGAGGATCTT
 CTGCCACGTCTCCGATTTGGCCCTCGTCTCCAGTAACGGCATGGATATGGGCTACAATGGGAATAAG
 ACTCCAAGGAGCCAGGTGTTCAAGCCTTTGGAATTGCTTTGGCACTCTCTGGATGAGTGGTTGGTTTTAA
 TAGCCACAGAATTAATGAAGAACAAGAGGACTCAGCGGATATCACCTCCATTTTACTGAAACAGAAAGG
 CCAGGATCAAGAGGCCTCTTGTATTTACGCGTTTGAGCCACCAGGACCTGGGAGCTATGAACGCCTGTCC
 ACTGGTCCCGGGGAATCAAACAGATGTGCTTCCGGGAAGCAGGAAGCCAGTGCAGGACTGTCAGGATG
 TCATTTCTGTGACGGCAACCGGCTAAGTGTGCTCATTCAAGCCTTTTACATGTGCTGCTCTGTGAGAT
 GCCTCCAGGAATGACGTGCGCTCGGTTCAATGAGTTTGTCTGCAAGCATGATGAAGTGTAAAGTCTTT
 GTGAATAGAAATCCAAAATTATATTTGACCATTTTCACTTTCTTCTTGAATGCCTGAACTGATGTCGA
 GATTTCATGCACATCATAAAGGCACAGCCATTCAAAGACCGCTGTGAATGGTTCTATGAGCATTGCACTC
 AGGACAGCCAGACTCAGACATGGTGCACAGACCAGTGAAGTGAACGACATTCTCCTGGTTCACAGAGAT
 TCTATTTTAGGAGTAGCTGTGAAATCGTATCAAAGCCAACTGTGCAAAGCTGAAGCAGGGGATCGCTG
 TGCCTTTTCATGGAGAGGAAGGCATGGGTCAAGGTGTTGTACGTGAATGGTTTGATATTCTGTCTAATGA
 GATAGTCAATCCTGACTATGCACTGTTTACCCAGTCAGCAGATGGAACAACCTTTTACGCCAATAGCAAC
 TCCTATGTCAATCCTGATCACTTGAACATTTCCGGTTTGTGGACAGATCTTGGGATTAGCTTTGAATC
 ACAGGCAGTTGGTCAATATTTACTTTCACACGATCCTTCTACAAACACATTTCTGGTATTCTGTGAATTA
 CCAAGATGTAGCGTCTATCGATCCAGAATATGCCAAAACTGCAGTGGATTTTAGACAATGACATTAGT
 GACCTGGGTCTAGAAGTACTTTCTCTGTTGAGACTGATGTGTTGGAGCTATGGAAGAGGTACCGTTAA
 AGCCTGGGGTGGAAATTTCTGTGACACAAAATAACAAAGCGGAGTACGTCCAGCTGGTTACTGAAC
 CCGGATGACAAGAGCCATTCAGCCTCAGATCAATGCGTTTTTACAGGGTTTCCATATGTTATCCCTCCT
 TCCCTCATACAGCTGTTGACGAGTATGAATTGGAGCTACTGCTCTCTGGCATGCCGGAATTTGAGGTGA
 ATGATTGGATCAAAAATACAGAATACACAAGTGGCTATGAAAGGGAAGATCCAGTTATTCAGTGGTTCTG
 GGAGGTTGTGGAGGACATGACTCAAGAAGAGCGGGTCTTCTCTTACAGTTCTGACTGGCAGTTCCAGG
 GTCCCGCATGGTGGCTTTGCCAATATCATGGGTGGCAGTGGTTTGCAAAACCTTTACAATTGCTGTGTC
 CATATACTCCAAATCTTTTACCAACTTCCAGCACGTGCATCAACATGCTCAAGTTACCTGAATACCCAAG
 TAAAGAGATCCTCAAGGACAGACTCCTCGTAGCTCTGCATTGTGGCAGCTACGGCTATACAATGGCT**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001108539

Insert Size:	2730 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_001108539.3</u> , <u>NP_001102009.2</u>
RefSeq Size:	3441 bp
RefSeq ORF:	2730 bp
Locus ID:	361866
UniProt ID:	<u>D3ZBM7</u>
Cytogenetics:	20q13
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]