

## Product datasheet for **MC222549**

### Hace1 (NM\_172473) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Hace1 (NM_172473) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Hace1
Synonyms:	1700042J16Rik; A730034A22Rik; BC025474
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC222549 representing NM\_172473  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGAGAGAGCGATGGAGCAGCTCAACCGTCTGACGCGCTCGCTGCGCCGCGCGCACCGTGGAGCTGC  
 CCGAGGATAATGAGACTGCTGTTTACACTGATGCCAATGGTGTGGCCGACCAGCACAGGTCTGTTTC  
 TGAACCTCTATCAAATCAAATTTGATGTCAATTATGCATTCGACGTGTGAAGAGAAGCTTGCTTCAC  
 ATTGCTGCAAACGTGGATCTGTGGAATGCTTGGTTCTTCTGTTGAAGAAAGCGCAAACCTAACTATC  
 AAGATATTTAGGCTGTACACCCCTTCTCGCTGCTAGAAAAGGACAGAAGAAATGCATGAGTAAAT  
 ACTGGAGTACAGTGGGATGTCAACATTTGTAATAATGAAGGCCTTACAGCAATACACTGGCTGGCTGTG  
 AATGGGAGGACAGAGCTCCTCCATGACCTCGTCAACACGTCACAGATGTGGATGTGGAGGATGCCATGG  
 GGCAGACAGCGCTACACGTAGCCTGCCAGAACGGGCACAAAACGACAGTGCAGTGTCTGCTAGACAGCGG  
 TGCTGATATTAACAGGCCGAATGTATCAGGAGCCACGCCACTGTACTTTGCTTGCAGTCAATGGTGCAGAG  
 GATACTGCACAGATTTCTCTATTACGAGGAGCCAAATATTTACCAGATAAAAAATGGAGTAACCCCTCTAG  
 ATCTATGTGTACAGGGTGGTTACGGACAGACTTGTGAAGTGTAAATTCAGTACCACCCGAGGCTTTTCCA  
 GACTATTGTTCAAATGACACAGAATGAAGACCTTCGGGAAAACATGTTACGGCAAGTTCTGCAGCATTTG  
 TCTCAGCAAAGTGAAGCCAGTACCTAAAGATCCTGACAGGCCTTGTGAAGTTGCTACGACAAATGGCC  
 ATAAGCTGCTTAGTTTATCTAGCAATTATGATGCGCAGATGAAGAGCCTTTTGAGGATTGTGAGGATATT  
 TTGTCATGTCTTCGAATTGGTCCCTCATCTCCAGTAATGGAATCGATATGGGCTACAATGGAAATAAA  
 ACTCCAAGAAGCCAGGTGTTCAAGCCTTTGGAATTGCTTTGGCACTCATTGGATGAATGGTTAGTTTTAA  
 TAGCCACAGAATTAATGAAAAACAAAGAGGATTAACAGATATTACTTCTATCTTGCTGAAACAAAAAGG  
 CCAGGATCAAGAGGCCCTTCTCTTTCTGCATTTGAGCCACCAGGCCCTGGGAGCTATGAAAGCCTGCCC  
 CCTGGTCCAGGGACTCCAAGCCAGAGGTGCTTGCAAGGGAGCAGGAAGCCAGTGCAGCTGTCAAGACG  
 TCATCTGTGACAGCCAACCGCTGAGTGTGTCATTCAAGCCTTCTACATGTGCTGTTCTGTGAGAT  
 GCCTCCAGGAATGACTTCACCTCGTTTCATTGAGTTTGTCTGCAAGCATGATGAAGTATTGAAATGCTTT  
 GTGAATAGAAACCCAAAATTATATTTGACCATTTTCACTTTCTTCTTGAATGCCTGAATTGATGTCAA  
 GATTTCATGCATATCATAAAGCACAGCCATTTAAAGATCGATGTGAGTGGTTCTATGAACATCTGCACTC  
 AGGACAGCCGGACTCAGACATGGTCCACAGACCAGTGTGAGTGAAGCATATCCTCCTGGTTCACAGAGAT  
 TCTATTTTGGAGTAGCTGTGAAATTGTATCAAAGCAAACGTGCAAAAGCTAAAGCAGGGGATTGCTG  
 TACGATTTTCATGGAGAAGAAGGCATGGGTCAAGGCCTTGTGCGTGAATGGTTTGATATTCTGTCTAATGA  
 GATCGTCAACCTGACTATGCACTGTTCACCCAGTCAGCAGACGGAAACAATTTCCAGCCAAACAGCAAC  
 TCCTATGTCAATCCTGATCACTTGAACATTTCCGGTTTGTGGACAGATCTTGGGGTAGCTTTGAACC  
 ACAGGCAGCTGGTCAATATTTACTTCACACGATCATTCTACAAGCACATTCTCGGTATTCTGTAATTA  
 CCAAGATGTAGCATCTATTGATCCTGAATATGCCAAAAATTTGCAATGGATTTTAGATAATGATATTAGT  
 GACTTGGGTCTAGAATTGACTTTTTCTGTTGAGACTGATGATTTGGAGCTATGGAAGAGGTGCCTTTAA  
 AGCCTGGGGTGGAAAGTATTCTGTGACACAAAATAACAAAGCGGAGTATGTCCAGCTCGTTACTGAAC  
 GCGTATGACAAGAGCCATTCAGCCGAGATCAATGCGTTTTTACAGGGTTTTCATATGTTATCCCGCCT  
 TCCTCATACAACCTGTTGACGAGTATGAATTGGAGCTACTGCTTCTGGCATGCCGGAATTTGATGTAA  
 ATGATTGGATAAAAAATACAGAATACACAAGTGGCTATGAAAGAGAAGATCCAGTTATTCAGTGGTTCTG  
 GGAAGTTGTGGAAGACATTAACAAGAAGAAAGAGTTCTTCTCTTGCAGTTCTGTTACTGGCAGTTCCAGG  
 GTCCCGCATGGTGGCTTTGCCAATATTATGGGTGGAAGTGGTTTGCAAACTTTACAATTGCTGTGTC  
 CATATACTCCAAATCTTTACCAACTCCAGCACATGCATCAACATGCTCAAGTTACCTGAATACCCAAG  
 TAAAGAAATACTCAAGGACAGACTCCTGTAGCACTGCATTGTGGCAGCTATGGTTATACAATGGCA**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul  
**ACCN:** NM\_172473

<b>Insert Size:</b>	2730 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_172473.3</a></u> , <u><a href="#">NP_766061.2</a></u>
<b>RefSeq Size:</b>	3785 bp
<b>RefSeq ORF:</b>	2730 bp
<b>Locus ID:</b>	209462
<b>UniProt ID:</b>	<u><a href="#">Q3U0D9</a></u>
<b>Cytogenetics:</b>	10 B2
<b>Gene Summary:</b>	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 (By similarity). May also act as a transcription regulator via its interaction with RARB.[UniProtKB/Swiss-Prot Function]