

## Product datasheet for **RG205602**

### **HACE1 (NM\_020771) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	HACE1 (NM_020771) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HACE1
Synonyms:	SPPRS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG205602 representing NM\_020771  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGAGAGCGATGGAGCAACTCAACCGCTGACGCGCTCGCTGCGCCACGCGCCACCGTGGAGTTGC  
 CCGAGGATAATGAACTGCTGTTTATACATTAATGCCAATGGTTATGGCTGATCAACACAGTCTGTTTC  
 TGAAGTACTATCAAATTCAAAATTTGATGTCAATTATGCATTCGGACGTGTGAAAAGAAGCTTGCTTCAC  
 ATTGCAGCAAATTTGGATCGGTGGAATGCTTGGTTTTGCTGTTAAAGAAAGGAGCAAATCCTAACTATC  
 AAGATATTTAGGCTGTACACCCCTTCATTTGGCAGCAAGAAATGGGCAGAAGAAATGTATGAGTAAATT  
 ATTAGAATATAGCGCTGATGTCAACATTTGTAATAATGAAGGCCTTACAGCAATACATTGGCTGGCTGTG  
 AATGGGCGGACAGAAGTACTCCATGACCTTGTGCAGCATGTCAGTGTGTTGATGTTGAGGATGCCATGG  
 GGCAGACAGCACTGCATGTTGCCTGCCAGAACGGTCACAAGACGACAGTGCAGTGTCTGAGACAGTGG  
 TGCTGATATTAACAGGCCAAATGTATCAGGAGCAACTCCATTGTACTTTGCTTGCAGTGCATGGTCAGAGA  
 GATACAGCACAGATCCTACTATTACGAGGAGCCAAATATCTGCCAGATAAAAATGGAGTAACTCCTCTGG  
 ATTTATGTGTACAGGGTGGATATGGAGAGACTTGTGAAGTATAATTCAATATCACCCGAGGCTTTTTCA  
 GACTATTATTCAAATGACACAGAATGAAGACCTCCGAGAAAACATGTTACGGCAAGTTCTGGAGCATTTG  
 TCTCAGCAAAGTGAAGCCAGTACCTAAAGATTCTAACAAGCCTTGTGAAAGTGTCTACAACAAATGGTC  
 AATAACTGCTTAGCCTCTAGCAATTATGATGCTCAAATGAAGAGCCTTTTAAGGATTGTGAGAATGTT  
 TTGTACAGTCTTTTCGAATTGGTCCATCCTCCCCAGTAATGGAATTGATATGGGCTACAATGGGAATAAA  
 ACTCCAAGAAGCCAGGTGTTCAAGCCTTGGAATTGCTTTGGCACTCGTTAGATGAATGGCTAGTTTTAA  
 CAGCCACAGAATTGATGAAAAACAAAAGAGACTCAACAGAGATCACTTCTATTTTACTGAAAAACAAAAGG  
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 ACTGGCACAAGGGAATCTAAACCAGATGCTCTTGCAAGGAGACAGGAAGCCAGTGCAGATTGTCAGGATG  
 TTATTTCTATGACAGCTAACCGGCTAAGTGTGCTCATTCAAGCTTTTTACATGTGCTGTTCTTGTGAGAT  
 GCCTCCGGGAATGACTTCACCTCGTTTCATTGAATTTGCTGCAAAACATGATGAAGTTTTAAATGCTTT  
 GTTAATAGAAATCCAAAATTATATTTGACCCTTTCACTTTCTCCTTGAATGCCTGAGTTGATGTCAA  
 GATTATGCATATCATAAAGCACAGCCTTTAAAGATCGCTGTGAATGGTTCTATGAACATTTGCATTC  
 AGGACAGCCAGATTAGATATGGTGCACAGGCCAGTGAATGAAAATGATATCCTGCTGGTTCACAGAGAT  
 TCTATTTTAGGAGTAGCTGTGAAGTTGTGTCAAAAGCAAATTTGCAAAAGCTAAAGCAAGGGATTGCTG  
 TACGGTTCATGGAGAAGAAGGCATGGGTCAAGGTGTTGTGCGTGAGTGGTTTGATATTCTGTCCAATGA  
 GATAGTCAATCCTGATTATGCATTGTTTACCCAGTCAGCTGATGGAACAACCTTTTCAGCCTAATAGCAAC  
 TCTTATGTAATCCTGATCACTTGAACATTTTCGGTTTTGCTGGGCAGATCTTGGGATTAGCGTTGAACC  
 ACAGGCAGCTGGTCAATATTTACTTCACACGATCCTTCTACAAGCACATTTCTGGTATTCTGTAAATTA  
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 GATCTGGGTCTAGAACTAACTTTTTCTGTTGAGACTGATGTGTTGGAGCAATGGAAGAGGTGCCTTTGA  
 AACCTGGGGTGGGAGTATTCTGTGACACAAAATAATAAAGCGGAGTACGTCCAGCTTGTACTGAACT  
 TCGAATGACAAGAGCCATTACGCTCAGATCAATGCTTTTTTACAGGGCTTTCATATGTTTCACTCCACCC  
 TCCCTCATACAGTTTTTTGATGAATATGAATTGGAGCTACTGCTTCTGGCATGCCAGAAATGATGTGA  
 GTGATTGGATAAAAAATACAGAATACACAAGTGGCTATGAAAGAGAAGATCCAGTTATTCAGTGGTCTG  
 GGAAGTTGTAGAAGACATTACTCAAGAGGAGAGAGTTCTTCTTACAGTTTGTACGGGCAAGTCCAGG  
 GTCCACATGGTGGGTTTGTAAATATCATGGGTGGAAGTGGATTGCAAACTTTACAATCGCTGCTGTGC  
 CATATACTCCAAATCTTTTACCAACTTCAAGCACATGCATCAACATGCTCAAGTTACCTGAATACCCAAG  
 TAAAGAAATACTCAAGGACAGACTTCTGTGGCACTACATTGTGGCAGCTATGGTTACACAATGGCA

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - **GTTTAA**

**Protein Sequence:** >RG205602 representing NM\_020771  
 Red=Cloning site Green=Tags(s)

MERAMEQLNRLTRSLRHARTVELPEDNETAVYTLMPVMADQHRVSSELLSNSKFDVNYAFGRVKRSLH  
 IAANCGSVECLVLLLKKGANPNYQDISGCTPLHLAARNGQKCKMSKLL EYSADVNICNNEGLTAIHWLAV  
 NGRTELLHDLVQHVSVDVDEDAMGQ TALHVACQNGHKTTVQCLLD SGADINRPNVSGATPLYFACSHGQR  
 DTAQIILLRGAKYLPDKNGVTPDLDCVQGGYGETCEVLIQYHPRLFQTI IQMTQNE DLRENMLRQVLEHL  
 SQQSESQYLKILTSLAEVATTNGHKLLSLSSNYDAQMSLLRIVRMFCHVFRIGPSSPSNGIDMGYNGNK  
 TPRSQVFKPLELLWHSLEWLVL TATELMKNKRDSTEITSILLKQKQDQDAASIPPFEPGPGSYENLS  
 TGTRESKPDALAGRQEASADCQDVISMTANRLSAVIQAFYMCCSCQMPPGMTSPRFIEFVCKHDEVKCF  
 VNRNPKIIFDHFHFLLECEPELMSRFMHIKAQPFKDRCEWFYEHLSHGQPDSDMVHRPVNENDILLVHRD  
 SIFRSSCEVVS KANCAK LKQGI AVR FHGEEGMGQGVVREWF DILSNEIVNPDYALFTQSADGTTFPNSN  
 SYVNPDLN YFRFAGQILGLALNHRQLVNIYFTRSFYKHILGIPVNYQDVASIDPEYAKNLQWILDNDIS  
 DLGLELTF SVETDVF GAMEEVLPKPGGGSILVTQNNKAEYVQLVTELRMTRAIQPQINAF LQG FHMFI PP  
 SLIQLFDEYELELLL SGMPEIDVSDWIKNTEYTSYEREDPVIQWFWEVVEDITQEERVLLLQFVTGSSR  
 VPHGGFANIMGGSLQNF TIAAVPYTPNLLPTSSTCINMLKLPEYPSKEILKDRLLVALHCGSYGYTMA

TRTRPLE - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

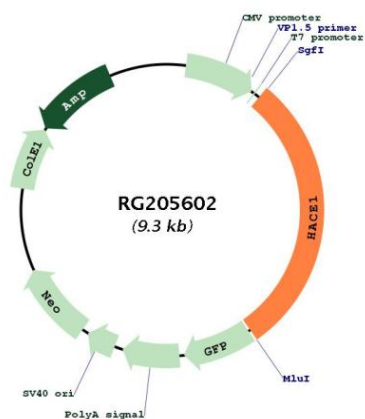
**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



<b>ACCN:</b>	NM_020771
<b>ORF Size:</b>	2727 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_020771.2</a> , <a href="#">NP_065822.1</a>
<b>RefSeq Size:</b>	4576 bp
<b>RefSeq ORF:</b>	2730 bp
<b>Locus ID:</b>	57531
<b>UniProt ID:</b>	<a href="#">Q8IYU2</a>
<b>Cytogenetics:</b>	6q16.3
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	This gene encodes a HECT domain and ankyrin repeat-containing ubiquitin ligase. The encoded protein is involved in specific tagging of target proteins, leading to their subcellular localization or proteasomal degradation. The protein is a potential tumor suppressor and is involved in the pathophysiology of several tumors, including Wilm's tumor. [provided by RefSeq, Mar 2016]

Product images:



Circular map for RG205602