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Product datasheet for RC205602

HACE1 (NM_020771) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HACE1 (NM_020771) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HACE1
Synonyms:	SPPRS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC205602 representing NM_020771
Red=Cloning site Blue=ORF Green=Tags(s)

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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC205602 representing NM_020771
Red=Cloning site Green=Tags(s)

MERAMEQLNRLTRSLRRARTVELPEDNETAVYTLMPMVMADQHRSVSELLSNSKFDVNYAFGRVKRSLLH
IAANCGSVECLVLLLKKGANPNYQDISGCTPLHLAARNGQKKCMSKLLEYSADVNICNNEGLTAIHWLAV
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DTAQILLLRGAKYLPDKNGVTPLDLCVQGGYGETCEVLIQYHPRLFQTIIQMTQNEDLRENMLRQVLEHL
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SIFRSSCEVVSKANCAKLKQGIAVRFHGEEGMGQGVVREWFDILSNEIVNPDYALFTQSADGTTFQPNSN
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SLIQLFDEYELELLLSGMPEIDVSDWIKNTEYTSGYEREDPVIQWFWEVVEDITQEERVLLLQFVTGSSR
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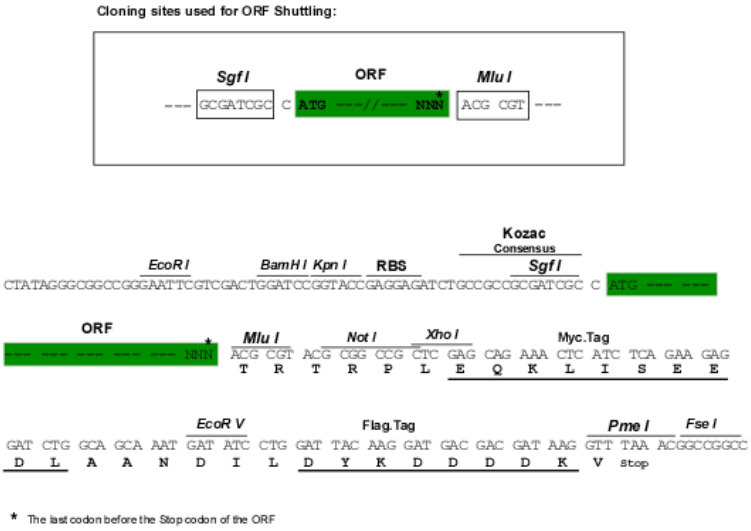
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg2860_a09.zip

Restriction Sites: SgfI-MluI

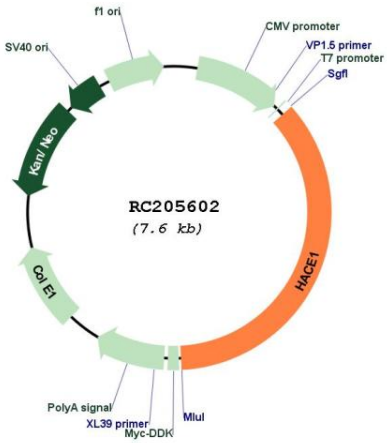
Cloning Scheme:



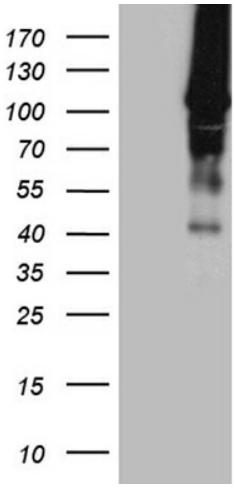
ACCN: NM_020771

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:	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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_020771.4
RefSeq Size:	4576 bp
RefSeq ORF:	2730 bp
Locus ID:	57531
UniProt ID:	Q8IYU2
Cytogenetics:	6q16.3
Protein Families:	Druggable Genome
MW:	102.2 kDa
Gene Summary:	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]

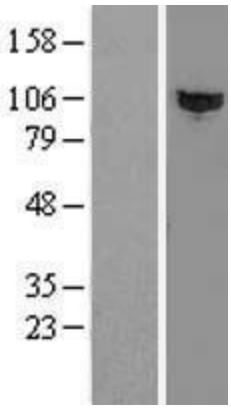
Product images:



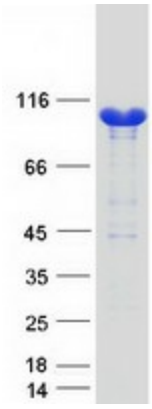
Circular map for RC205602



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY HACE1 (Cat# RC205602, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-HACE1 (Cat# [TA810060])(1:500). Positive lysates [LY412326] (100ug) and [LC412326] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY412326]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205602 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified HACE1 protein (Cat# [TP305602]). The protein was produced from HEK293T cells transfected with HACE1 cDNA clone (Cat# RC205602) using MegaTran 2.0 (Cat# [TT210002]).