

Product datasheet for **RC208645**

HIP2 (UBE2K) (NM_005339) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: HIP2 (UBE2K) (NM_005339) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: HIP2
Synonyms: E2-25K; HIP2; HYPG; LIG; UBC1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC208645 representing NM_005339
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCAACATCGCGGTGCAGCGAATCAAGCGGGAGTTCAAGGAGGTGCTGAAGAGCGAGGAGACGAGCA
AAAATCAAATTAAGTAGATCTTGATAGATGAGAATTTTACAGAATTAAGAGGAGAAATAGCAGGACCTCC
AGACACACCATATGAAGGAGGAAGATACCAACTAGAGATAAAAAACCAGAAACATACCCATTTAATCCC
CCTAAGGTCGGTTTATCACTAAAATATGGCATCTAATATTAGTCCGTCACAGGGGCTATTTGTTGG
ATATCCTGAAAGATCAATGGGCAGCTGCAATGACTCTCCGCACGGTATTATTGTCATTGCAAGCACTATT
GGCAGCTGCAGAGCCAGATGATCCACAGGATGCTGTAGTAGCAAATCAGTACAAACAAAATCCCGAAATG
TTCAAACAGACAGCTCGACTTTGGGCACATGTGTATGCTGGAGCACCAGTTTCTAGTCCAGAATACACCA
AAAAAATAGAAAACCTATGTGCTATGGGCTTTGATAGGAATGCAGTAATAGTGGCCTTGTCTTCAAATC
ATGGGATGTAGAGACTGCAACAGAATTGCTTCTGAGTAAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC208645 representing NM_005339
Red=Cloning site Green=Tags(s)

MANIAVQRIKREFKEVLKSEETSKNQIKVDLVDFTELRLGEIAGPPDTPYEGGRYQLEIKIPETYPFNP
PKVRFITKIWHPNISSVTGAICLDILKDQWAAAMTLRTVLLSLQALLAAEPDDPQDAVVANQYKQNPEN
FKQTARLWAHVYAGAPVSSPEYTKKIENLCAMGFDRNAVIVALSSKSWDVETATELLLSN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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Chromatograms: https://cdn.origene.com/chromatograms/mg2875_e03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005339

ORF Size: 600 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.

RefSeq: [NM_005339.5](#)

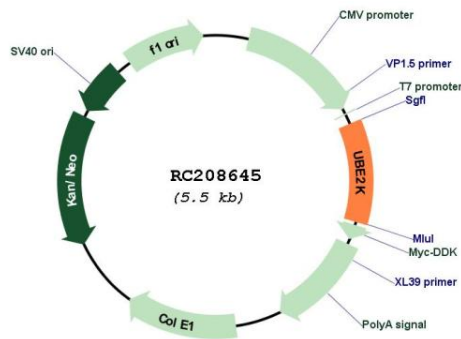
RefSeq Size: 2208 bp

RefSeq ORF: 603 bp

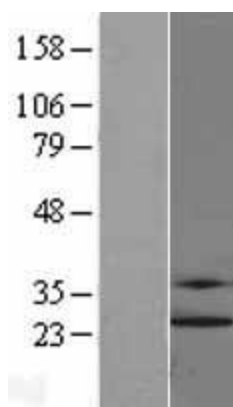
Locus ID: 3093

UniProt ID:	P61086
Cytogenetics:	4p14
Domains:	UBA, UBCc
Protein Families:	Druggable Genome, Transcription Factors
Protein Pathways:	Ubiquitin mediated proteolysis
MW:	22.2 kDa
Gene Summary:	The protein encoded by this gene belongs to the ubiquitin-conjugating enzyme family. This protein interacts with RING finger proteins, and it can ubiquitinate huntingtin, the gene product for Huntington's disease. Known functions for this protein include a role in aggregate formation of expanded polyglutamine proteins and the suppression of apoptosis in polyglutamine diseases, a role in the dislocation of newly synthesized MHC class I heavy chains from the endoplasmic reticulum, and involvement in foam cell formation. Multiple transcript variants encoding different isoforms have been identified for this gene. [provided by RefSeq, Jul 2008]

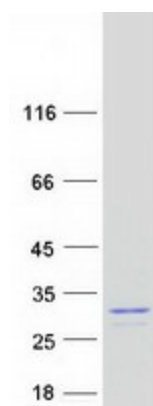
Product images:



Circular map for RC208645



Western blot validation of overexpression lysate (Cat# [LY417371]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208645 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified UBE2K protein (Cat# [TP308645]). The protein was produced from HEK293T cells transfected with UBE2K cDNA clone (Cat# RC208645) using MegaTran 2.0 (Cat# [TT210002]).