

Product datasheet for **RC225143**

HIP2 (UBE2K) (NM_001111112) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: HIP2 (UBE2K) (NM_001111112) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: UBE2K
Synonyms: E2-25K; HIP2; HYPG; LIG; UBC1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC225143 representing NM_001111112
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGCCAACATCGCGGTGCAGCGAATCAAGCGGGAGTTCAAGGAGGTGCTGAAGAGCGAGGAGACGAGCA
AAAATCAAATTAAGTAGATCTTGTAGATGAGAATTTTACAGAATTAAGAGGAGAAATAGCAGGACTCC
AGACACCCATATGAAGGAGGAAGATACCAACTAGAGATAAAAAACCAGAAACATACCCATTTAATCCC
CCTAAGGTCCGGTTTACTACTAAAATATGGCATCCTAATATTAGTTCCGTCACAGGGGCTATTTGTTGG
ATATCCTGAAAGATCAATGGGCAGCTGCAATGACTCTCCGCACGGTATTATTGTCATTGCAAGCACTATT
GGCAGTGCAGAGCCAGATGATCCACAGGATGCTGTAGTAGCAAATCAGAATGCAGTAATAGTGGCCTTG
TCTTCAAATCATGGGATGTAGAGACTGCAACAGAATTGCTTCTGAGTAAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC225143 representing NM_001111112
Red=Cloning site Green=Tags(s)

MANIAVQRIKREFKEVLKSEETSKNQIKVDLVDFTELRLGEIAGPPDTPYEGGRYQLEIKIPETYPFNP
PKVRFITKIWHPNISSVTGAICLDILKDQWAAAMTLRTVLLSLQALLAAAEPPDQDAVVANQNAVIVAL
SSKSWDVETATELLLLSN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

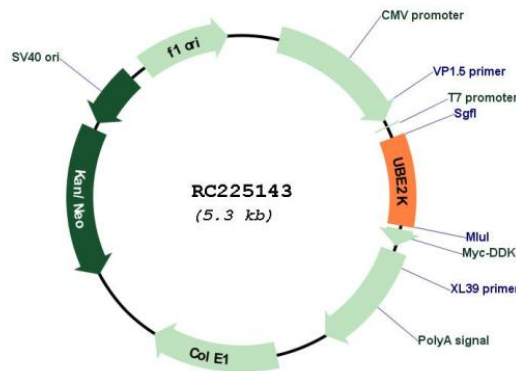


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001111112

ORF Size: 471 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.

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|-------------------------------|---|
| 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_001111112.2</u> |
| RefSeq ORF: | 474 bp |
| Locus ID: | 3093 |
| UniProt ID: | <u>P61086</u> |
| Cytogenetics: | 4p14 |
| Protein Families: | Druggable Genome, Transcription Factors |
| Protein Pathways: | Ubiquitin mediated proteolysis |
| MW: | 17.3 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] |