

## Product datasheet for **RG208645**

### 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:** TurboGFP  
**Symbol:** HIP2  
**Synonyms:** E2-25K; HIP2; HYPG; LIG; UBC1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG208645 representing NM\_005339  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCCAACATCGCGGTGCAGCGAATCAAGCGGGAGTTCAAGGAGGTGCTGAAGAGCGAGGAGACGAGCA  
 AAAATCAAATTAAGTAGATCTTGATAGAGAATTTACAGAATTAAGAGGAGAAATAGCAGGACCTCC  
 AGACACACCATATGAAGGAGGAAGATACCAACTAGAGATAAAAAACCAGAAACATACCCATTTAATCCC  
 CCTAAGGTCCGGTTTACTACTAAAATATGGCATCCTAATATTAGTCCGTCACAGGGGCTATTTGTTGG  
 ATATCCTGAAAGATCAATGGGCAGCTGCAATGACTCTCCGCACGGTATTATTGTCATTGCAAGCACTATT  
 GGCAGCTGCAGAGCCAGATGATCCACAGGATGCTGTAGTAGCAAATCAGTACAAACAAAATCCCGAAATG  
 TTCAAACAGACAGCTCGACTTTGGGCACATGTGTATGCTGGAGCACCAGTTTCTAGTCCAGAATACACCA  
 AAAAAATAGAAAACCTATGTGCTATGGGCTTTGATAGGAATGCAGTAATAGTGGCCTTGCTTCAAATC  
 ATGGGATGTAGAGACTGCAACAGAATTGCTTCTGAGTAAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG208645 representing NM\_005339  
 Red=Cloning site Green=Tags(s)

MANIAVQRIKREFKEVLKSEETSKNQIKVLDLVDENFTELARGEIAGPPDTPYEGGRYQLEIKIPETYPFNP  
 PKVRFITKIWHPNISSVTGAICLDILKDQWAAAMTLRTVLLSLQALLAAEPDDPQDAVVANQYKQNP  
 FKQTARLWAHVYAGAPVSSPEYTKKIENLCAMGFDRNAVIVALSSKSWDVETATELLLSN

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



[View online »](#)

**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

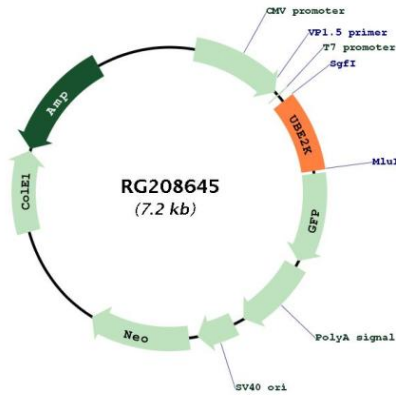
**Domains:** UBA, UBCc

**Protein Families:** Druggable Genome, Transcription Factors

**Protein Pathways:** Ubiquitin mediated proteolysis

**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 RG208645