

## Product datasheet for RC209997

### HIGD1A (NM\_014056) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** HIGD1A (NM\_014056) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** HIGD1A  
**Synonyms:** HIG1; RCF1a  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC209997 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGTCAACAGACACAGGTGTTCCCTTCCTTCATATGAGGAAGATCAGGGATCAAACCTATTCGAAAAG  
 CTAAGAGGCACCATTCGTACCCGTTGGAATAGCGGGTTTGCAGCAATTGTTGCATATGGATTATATAA  
 ACTGAAGAGCAGGGAAATACTAAAATGTCCATTCATCTGATCCACATGCGTGTGGCAGCCCAAGGCTTT  
 GTTGTAGGAGCAATGACTGTTGGTATGGCTATCCATGTATCGGAATTCTGGCAAACCTAAGCCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC209997 protein sequence  
 Red=Cloning site Green=Tags(s)  
 MSTDTGVSLPSYEEDQGSKLIRKAKEAPFVPGIAGFAAIVAYGLYKLSRGNTKMSIHLIHMVAAQGF  
 VVGAMTVGMGYSMYREFWAKPKP

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6548\\_c09.zip](https://cdn.origene.com/chromatograms/mk6548_c09.zip)

**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**


**ACCN:** NM\_014056

**ORF Size:** 279 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\\_014056.4](#)

**RefSeq Size:** 2781 bp

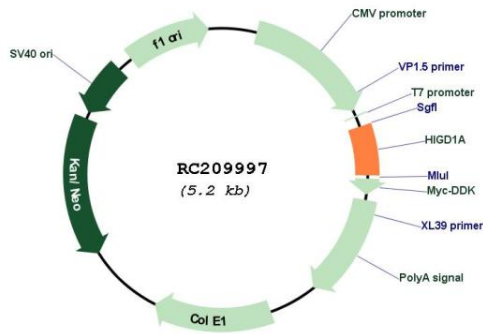
**RefSeq ORF:** 282 bp

**Locus ID:** 25994

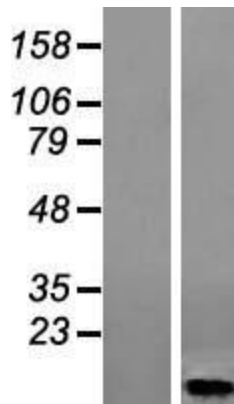
**UniProt ID:** [Q9Y241](#)  
**Cytogenetics:** 3p22.1  
**Domains:** [HIG\\_1\\_N](#)  
**Protein Families:** Transmembrane  
**MW:** 10.1 kDa

**Gene Summary:** Proposed subunit of cytochrome c oxidase (COX, complex IV), which is the terminal component of the mitochondrial respiratory chain that catalyzes the reduction of oxygen to water. May play a role in the assembly of respiratory supercomplexes.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for RC209997



Western blot validation of overexpression lysate (Cat# [LY420483]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC217271] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).