

## Product datasheet for **RC233609**

### **HYI (NM\_001243526) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** HYI (NM\_001243526) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** HYI  
**Synonyms:** HT036  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC233609 representing NM\_001243526  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGCCGCTGCGCTTCTCCGCCAATCTGTCCTGGCTATCCCCGAGCTCTCCGGCCTCCCCGCGCGGG  
TGCGGGCCGCGGGCAGCTCGGGCTTCGAGGCCGTCGAGGTGGCCTGGCCGTACGCGGAGACGCCTGAGGC  
GCTGGCGCGCCGCGCGAGAAGCGGGGCTGCGGCTTGTACTGATCAACACGCCCCCGGAGACCAAGAG  
AAGGGGAAATGGGGCTGGGGCCGTCCCCGGGAGACAGGCGGCCTTCGAGAGGGACTGGAGCAGGCCG  
TGCGGAGTGGCATTGCTTGATGGCAGGAAGTTGAGTGTTCCTGCAAGGGTGTGTGGCAAGAGGAGG  
CCTGGTGTATTTGCGAGGTTCTGAGGCTGGACATGATCCACCTGATGGCTGGCCGAGTACCCAGGGA  
GCTGATCGAATAGCAGTCAAGGCTGAGATGGAGGCCGTTTTCTGGAGAACCTGAGGCATGCAGCTGGG  
TTTTGGCTCAGGAGGACCTCGTGGGACTGCTGGAGCCATCAACACCCGCATCACTGACCCCACTACTT  
CCTGGACACGCCCCAGCAGGCGGCAGCCATCTTACAGAAGGTAGGAAGACCCAACCTCCAATTACAAATG  
GACATATCCACTGGCAGATCATGGATGGGAACCTGACAGGAAACATCCGGGAGTTCTGCCATTGTTG  
GGCATGTGCAGGTGGCACAGGTCCCAGGCCGAGGGGAGCCAGCAGCCCGGAGAGCTGAATTTCCCTA  
TCTGTTTCAACTGCTGGAAGATGAAGGCTACAAAGGCTTCGTGGGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



**Protein Sequence:** >RC233609 representing NM\_001243526  
Red=Cloning site Green=Tags(s)

MAPLRFSANLSWLFPELSGLPARVRAAGSSGFEAVEVAWPYAETPEALARAAAREAGLRRLVLINTPPGDQE  
 KGEMGLGAVPGRQAAFREGLEQAVRSGHCLMGRKLSVPCKGAVARGGLVYLAFLRLDMIHLMAGRVPQG  
 ADRIAVKAEMEAVFLENLRHAAGVLAQEDLVGLLEPINTRITDPQYFLDTPQAAAAI LQKVGRPNLQLQM  
 DIFHWQIMDGNLTGNIREFLPIVGHVQVAQVPRGEPSSPGELNFPYLFQLLEDEGYKGFVG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001243526

**ORF Size:** 816 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\\_001243526.1](#), [NP\\_001230455.1](#)

**RefSeq Size:** 1326 bp

**RefSeq ORF:** 819 bp

**Locus ID:** 81888

**UniProt ID:** [Q5T013](#)

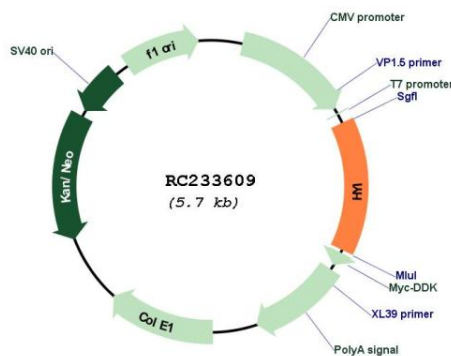
**Cytogenetics:** 1p34.2

**Protein Pathways:** Glyoxylate and dicarboxylate metabolism, Metabolic pathways

**MW:** 29.9 kDa

**Gene Summary:** This gene encodes a putative hydroxypyruvate isomerase, which likely catalyzes the conversion of hydroxypyruvate to 2-hydroxy-3-oxopropanoate, and may be involved in carbohydrate transport and metabolism. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2011]

### Product images:



Circular map for RC233609