

## Product datasheet for **RG231118**

### **HYI (NM\_001190880) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** HYI (NM\_001190880) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** HYI  
**Synonyms:** HT036  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG231118 representing NM\_001190880  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCGCCGCTGCGCTTCTCCGCCAATCTGTCCTGGCTATCCCCGAGCTCTCCGGCCTCCCCGCGCGGG  
 TCGGGGCCGCGGGCAGCTCGGGCTTCGAGGCCGTCGAGGTGGCCTGGCCGTACGCGGAGACGCCTGAGGC  
 GCTGGCGCGCCGCGCGAGAAGCGGGGCTGCGGCTTGTACTGATCAACACGCCCCCGGAGACCAAGAG  
 AAGGGGAAATGGGGCTGGGGCCGTCCCCGGGAGACAGGCGGCCTTCGAGAGGGACTGGAGCAGGCCG  
 TGCGGTATGCCAAAGCCCTGGGCTGTCCAGGATCCACCTGATGGCTGGCCGAGTACCCAGGGAGCTGA  
 TCGAATAGCAGTCAAGGCTGAGATGGAGGCCGTTTTTCTGGAGAACCTGAGGCATGCAGCTGGGGTTTTG  
 GCTCAGGAGGACCTCGTGGGACTGCTGGAGCCATCAACACCCGCATCACTGACCCCACTACTTCTCTGG  
 ACACGCCCCAGCAGGCGGCAGCCATCTTACAGAAGGTAGGAAGACCCAACCTCCAATTACAAATGGACAT  
 ATTCCACTGGCAGATCATGGATGGGAACCTGACAGGAAACATCCGGGAGTTCTGCCATTGTTGGGCAT  
 GTGCAGGTGGCACAGGTCCAGGCCGAGGGGAGCCAGCAGCCCCGGAGAGCTGAATTTCCCTATCTGT  
 TTCAACTGCTGGAAGATGAAGGCTACAAAGGCTTCGTGGGCTGTGAGTATCAGCCTCGAGGAGACACAGT  
 AGAGGGCTTGAGTTGGCTACGTTCACTGGGATAGGCGGGGCCACCCAGAGGCTGGCCAG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >RG231118 representing NM\_001190880  
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MAPLRFSANLSWLFPELSGLPARVRAAGSSGFEAVEVAWPYAETPEALARAAAREAGLRRLVLINTPPGDQE  
 KGEMGLGAVPGRQAAFREGLEQAVRYAKALGCPRIHLMAGRVPQGADRIAVKAEMEAVFLENLRHAAGVL  
 AQEDLVGLLEPINTRITDPQYFLDTPQQAAAAILQKVGPRNLQLQMDIFHWQIMDGNLTGNIREFLPVIGH  
 VQVAQVPGRGEPSSPGELNFPYLFQLEDEGYKGFVGCYQPRGDTVEGLSWLRSYWDRRGHPEAGQ

TRTRPLE - GFP Tag - V

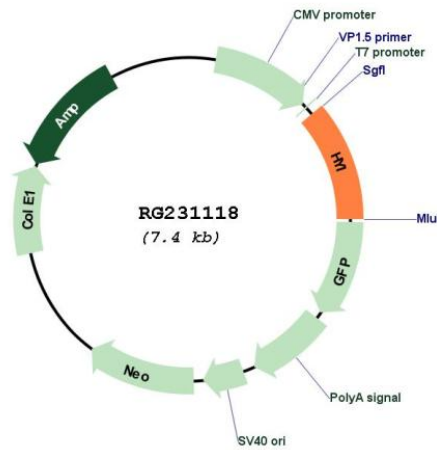
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**



**ACCN:** NM\_001190880

**ORF Size:** 831 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001190880.2</a>
<b>RefSeq Size:</b>	1133 bp
<b>RefSeq ORF:</b>	834 bp
<b>Locus ID:</b>	81888
<b>UniProt ID:</b>	<a href="#">Q5T013</a>
<b>Cytogenetics:</b>	1p34.2
<b>Protein Pathways:</b>	Glyoxylate and dicarboxylate metabolism, Metabolic pathways
<b>Gene Summary:</b>	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]