

## Product datasheet for **RG225473**

### Tartrate Resistant Acid Phosphatase (ACP5) (NM\_001111036) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tartrate Resistant Acid Phosphatase (ACP5) (NM_001111036) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ACP5
Synonyms:	HPAP; TRACP5a; TRACP5b; TRAP; TrATPase
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG225473 representing NM_001111036 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGACATGTGGACGGCGCTGCTCATCCTGCAAGCCTTGTGCTACCCTCCCTGGCTGATGGTGCCACCC  
CTGCCCTGCGCTTTGTAGCCGTGGGTGACTGGGGAGGGGTCCCAATGCCCATTCACACGGCCCGGGA  
AATGGCCAATGCCAAGGAGATCGCTCGGACTGTGCAGATCCTGGGTGCAGACTTCATCCTGTCTAGGG  
GACAATTTTACTTCACTGGTGTGCAAGACATCAATGACAAGAGGTTCCAGGAGACCTTTGAGGACGTAT  
TCTCTGACCGCTCCCTTCGCAAAGTGCCCTGGTACGTGCTAGCCGAAACCATGACCACCTTGCCAATGT  
CTCTGCCAGATTGCATACTCTAAGATCTCCAAGCGCTGGAATTCGCCAGCCCTTCTACCGCCTGCAC  
TTCAAGATCCACAGACCAATGTGTCTGTGGCCATTTTATGCTGGACACAGTGACACTATGTGGCAACT  
CAGATGACTTCCTCAGCCAGCAGCCTGAGAGGCCCCGAGACGTGAAGCTGGCCCGCACACAGCTGTCCTG  
GCTCAAGAAACAGCTGGCGGGCCAGGGAGGACTACGTGCTGGTGGCTGGCCACTACCCCGTGTGGTCC  
ATAGCCGAGCACGGGCTACCCACTGCCTGGTCAAGCAGCTACGGCCACTGCTGGCCACATACGGGGTCA  
CTGCCTACCTGTGCGGCCACGATCAAACTGCAGTACCTGCAAGATGAGAATGGCGTGGGCTACGTGCT  
GAGTGGGGCTGGGAATTCATGGACCCCTCAAAGCGGCACCAGCGCAAGGTCCCCAACGGCTATCTGCGC  
TTCCACTATGGGACTGAAGACTCACTGGGTGGCTTTGCCTATGTGGAGATCAGCTCCAAAGAGATGACTG  
TCACTTACATCGAGGCCCTCGGGCAAGTCCCTCTTAAGACCAGGCTGCCGAGGCGAGCCAGGCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

**Protein Sequence:** >RG225473 representing NM\_001111036  
Red=Cloning site Green=Tags(s)

MDMWTALLILQALLLPSLADGATPALRFVAVGDWGGVNPAPFHTAREMANAKEIARTVQILGADFILSLG  
 DNFYFTGVQDINDKRFQETFEDVFSDRSLRKVPWYVLAGNHDHLGNVSAQIAYSKISKRWNFPPSPFYRLH  
 FKIPQTNVSVAI FMLDTVTL CGNSDDFLSQQPERPRDVKLARTQLSWLKKQLAAAREDYVLVAGHYPVWS  
 IAEHGPTHCLVKQLRPLLATYGVTAYL CGHDHNLQYLQDENGVGYYVLSGAGNFMDP SKRHQRKVPNGYLR  
 FHYGTEDSLGGFAYVEISSKEMTVTYIEASGKSLFKTRLPRRARP

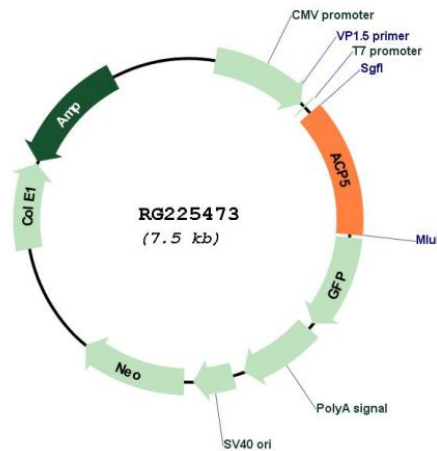
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001111036

**ORF Size:** 975 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_001111036.3</a>
<b>RefSeq Size:</b>	1590 bp
<b>RefSeq ORF:</b>	978 bp
<b>Locus ID:</b>	54
<b>UniProt ID:</b>	<a href="#">P13686</a>
<b>Cytogenetics:</b>	19p13.2
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Lysosome, Riboflavin metabolism
<b>Gene Summary:</b>	This gene encodes an iron containing glycoprotein which catalyzes the conversion of orthophosphoric monoester to alcohol and orthophosphate. It is the most basic of the acid phosphatases and is the only form not inhibited by L(+)-tartrate. [provided by RefSeq, Aug 2008]