

Product datasheet for **RG210752**

Tartrate Resistant Acid Phosphatase (ACP5) (NM_001611) Human Tagged ORF Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Tartrate Resistant Acid Phosphatase (ACP5) (NM_001611) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Tartrate Resistant Acid Phosphatase |
| 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: | >RG210752 representing NM_001611 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACATGTGGACGGCGCTGCTCATCCTGCAAGCCTTGTGCTACCCTCCCTGGCTGATGGTGCCACCC
CTGCCCTGCGCTTTGTAGCCGTGGGTGACTGGGGAGGGGTCCCAATGCCCATTCACACGGCCCGGGA
AATGGCCAATGCCAAGGAGATCGCTCGGACTGTGCAGATCCTGGGTGCAGACTTCATCCTGTCTAGGG
GACAATTTTACTTCACTGGTGTGCAAGACATCAATGACAAGAGGTTCCAGGAGACCTTTGAGGACGTAT
TCTCTGACCGCTCCCTTCGCAAAGTGCCCTGGTACGTGCTAGCCGAAACCATGACCACCTTGGCAATGT
CTCTGCCAGATTGCATACTCTAAGATCTCCAAGCGCTGGAATTCGCCAGCCCTTCTACCGCCTGCAC
TTCAAGATCCACAGACCAATGTGTCTGTGGCCATTTTATGCTGGACACAGTGACACTATGTGGCAACT
CAGATGACTTCCTCAGCCAGCAGCCTGAGAGGCCCCGAGACGTGAAGCTGGCCCGCACACAGCTGTCCTG
GCTCAAGAAACAGCTGGCGGGCCAGGGAGGACTACGTGCTGGTGGCTGGCCACTACCCCGTGTGGTCC
ATAGCCGAGCACGGCCCTACCCACTGCCTGGTCAAGCAGCTACGGCCACTGCTGGCCACATACGGGGTCA
CTGCCTACCTGTGCGGCCACGATCAAACTGCAGTACCTGCAAGATGAGAATGGCGTGGGCTACGTGCT
GAGTGGGGCTGGGAATTCATGGACCCCTCAAAGCGGCACCAGCGCAAGGTCCCCAACGGCTATCTGGCC
TTCCACTATGGGACTGAAGACTCACTGGGTGGCTTTGCCTATGTGGAGATCAGCTCCAAAGAGATGACTG
TCACTTACATCGAGGCCCTCGGGCAAGTCCCTCTTAAGACCAGGCTGCCGAGGCGAGCCAGGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG210752 representing NM_001611
 Red=Cloning site Green=Tags(s)

MDMWTALLILQALLLPSLADGATPALRFVAVGDWGGVNPAPFHTAREMANAKEIARTVQILGADFILSLG
 DNFYFTGVQDINDKRFQETFEDVFSDRSLRKVPWYVLAGNHDHLGNVSAQIAYSKISKRWNFPPSPFYRLH
 FKIPQTNVSVAIIFMLDVTLCGNSDDFLSQQPERPRDVKLARTQLSWLKKQLAAAREDYVLVAGHYPVWS
 IAEHGPTHCLVKQLRPLLATYGVTAYL CGHDHNLQYLQDENGVGYVLSGAGNFMDP SKRHQRKVPNGYLR
 FHYGTEDSLGGFAYVEISSKEMTVTYIEASGKSLFKTRLPRRARP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001611

ORF Size: 975 bp

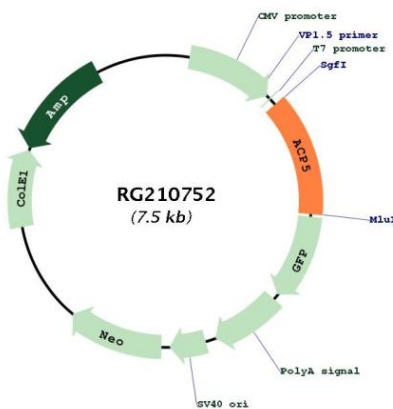
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

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| 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: | <ol style="list-style-type: none"> 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: | <u>NM_001611.5</u> |
| RefSeq Size: | 1413 bp |
| RefSeq ORF: | 978 bp |
| Locus ID: | 54 |
| UniProt ID: | <u>P13686</u> |
| Cytogenetics: | 19p13.2 |
| Domains: | Metallophos |
| Protein Families: | Druggable Genome |
| Protein Pathways: | Lysosome, Riboflavin metabolism |
| Gene Summary: | 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] |

Product images:



Circular map for RG210752