

## Product datasheet for **RG208595**

### TRP1 (TYRP1) (NM\_000550) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TRP1 (TYRP1) (NM_000550) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TRP1
Synonyms:	b-PROTEIN; CAS2; CATB; GP75; OCA3; TRP; TRP1; TYRP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG208595 representing NM\_000550  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAGTGTCTCTAAACTCCTCTCTCTGGGCTGTATCTTCTCCCTTGCTACTTTTTTCAGCAGGCCCGGG  
 CTAATTCCTCAAGACAGTGTGCCACTGTTGAGGCTTTGAGAAGTGGTATGTGTTGCCAGACCTGTCCCC  
 TGTGTCTGGGCTGGGACAGACCCTGTGGCTCATCATCAGGAGGGGCAGATGTGAGGCAGTACTGCA  
 GACTCCCGGCCCCACAGCCCTCAGTATCCCATGATGGCAGAGATGATCGGGAGGTCTGGCCCTTGCCT  
 TCTTCAATAGGACATGCTACTGCAACGGCAATTTCTCAGGACACAACGTGGGACGTGCCGTCTGGCTG  
 GAGAGGAGCTGCCTGTGACCAGAGGTTCTCATAGTCAGGAGAAATCTTCTGGACTTAAGTAAAGAAGAA  
 AAGAACCCTTTGTCCGGGCCCTGGATATGGCAAAGCGCACAACTCACCTTTATTTGTCATTGCCACCA  
 GGAGATCAGAAGAAATACTGGGGCCAGATGGCAAACAGCCACAATTTGAGAACATTTCCATTATAACTA  
 CTTTGTGGACACACTATTACTCAGTCAAAAAGACTTTCTTGGGGTAGGACAGGAAAGCTTTGGTGAA  
 GTGGATTTCTCTCATGAGGGACCAGCTTTCTCATGACAGGTACCACCTCTCGCTCTGGAGAAAG  
 ACATGCAGGAAATGTTGCAAGAGCCTTCTTCTCCCTTCTTACTGGAATTTGCAACGGGGAAAAATGT  
 CTGTGATATCTGCACGGATGACTTGATGGGATCCAGAAGCAACTTTGATTCCACTCTAATAAGCCCAAC  
 TCTGTCTTTTCTCAATGGCGAGTGGTCTGTGACTCCTTGGAAAGATTATGATACCTGGGAACACTTTGTA  
 ACAGCACCGAGGATGGGCCAATTAGGAGAAATCCAGCTGGAAATGTGGCCAGACCAATGGTGAACAGTCT  
 TCCTGAACCACAGGATGTGCTCAGTGCCTTGAAGTTGGTTTATTTGACACGCCTCTTTTTATTCCAAC  
 TCTACAAACAGTTTCCGAAACACAGTGAAGGTTACAGTGACCCACGGGAAAGTATGACCTGCTGTTT  
 GAAGTCTTCACAATTTGGCTCATCTATTCTGAATGGAACAGGGGACAAACCCATTTGTCTCAAATGA  
 TCCTATTTTTGTCTCCTGCACACCTTACAGATGCAGTCTTTGATGAATGGCTGAGGAGATACAATGCT  
 GATATATCCACATTTCCATTGGAATGCCCCTATTGGACATAATAGACAATACAACATGGTGCATTCT  
 GGCCCCAGTCACCAACACAGAAATGTTTGTACTGCTCCAGACAACCTGGGATACACTTATGAAATTCA  
 ATGGCCAAGTCGGGAGTTTGTGTACTGAGATAATTGCCATAGCAGTAGTTGGCGCTTTGTACTGGTT  
 GCACTCATTTTTGGGACTGCTTCTATCTGATTCGTGCCAGACGAGTATGGATGAAGCTAACCGCCTC  
 TCCTCACTGATCAGTATCAATGCTATGCTGAAGAATATGAAAACTCCAGAAATCAATCAGTCTGTGGT  
 C

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG208595 representing NM\_000550  
 Red=Cloning site Green=Tags(s)

MSAPKLLSLGCIFFPLLLFQARAQFPRQCATVEALRSGMCCPDLSPVSGPGTDRCGSSSGRGRCEAVTA  
 DSRPHSPQYPHDGRDDREWPLRFFNRTCHCNGNFSGHNCGTCRPGWRGAACDQRLIVRRNLLDLSKKE  
 KNHFVRALDMAKRTTHPLFVIATRRSEEILGPDGNTQPENISINYFVWTHYYSVKKTFLLGVGQESFGE  
 VDFSHEGPAFLTWHRYHLLRLEKDMQEMLQEPSFSLPYWNFATGKNVCDICTDDLMSRSNFDSTLISPN  
 SVFSQWRVVCDSLEDYDTLGTLCNSTEDGPIRRNPAGNVARPMVQRLPEPQDVAQCLEVLFDTPPFYSN  
 STNSFRNTVEGYSPTGKYDPAVRSLHNLHLFLNGTGGQTHLSPNDPIFVLLHTFTDAVFDEWLRRYNA  
 DISTFPLENAPIGHNRQYNMVPFWPPVTNTEMFVTAPDNLGYTYEIQWPSREFSVPEIIAIAVVGALLLV  
 ALIFGTASYLIRARRSMDEANQPLLDQYQCYAEEYEKLNPNQSVV

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_000550

**ORF Size:** 1611 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\\_000550.3](#)

**RefSeq Size:** 2797 bp

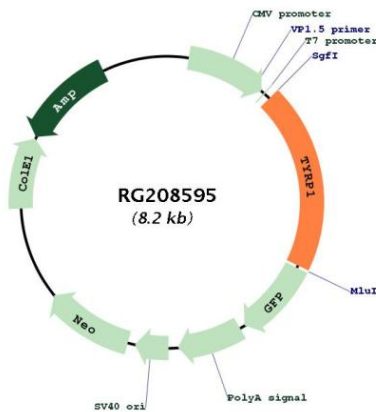
**RefSeq ORF:** 1614 bp

**Locus ID:** 7306

**UniProt ID:** [P17643](#)

<b>Cytogenetics:</b>	9p23
<b>Domains:</b>	tyrosinase
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Melanogenesis, Metabolic pathways, Tyrosine metabolism
<b>Gene Summary:</b>	This gene encodes a melanosomal enzyme that belongs to the tyrosinase family and plays an important role in the melanin biosynthetic pathway. Defects in this gene are the cause of rufous oculocutaneous albinism and oculocutaneous albinism type III. [provided by RefSeq, Mar 2009]

**Product images:**



Circular map for RG208595