

Product datasheet for **SC119834**

TRP1 (TYRP1) (NM_000550) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | TRP1 (TYRP1) (NM_000550) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | TRP1 |
| Synonyms: | b-PROTEIN; CAS2; CATB; GP75; OCA3; TRP; TRP1; TYRP |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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Fully Sequenced ORF: >OriGene ORF within SC119834 sequence for NM_000550 edited (data generated by NextGen Sequencing)

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ATGAGTGCCTCTAACTCCTCTCTCTGGGCTGTATCTTCTTCCCCTTGCTACTTTTTTCAG
CAGGCCCGGGCTCAATCCCAAGACAGTGTGCCACTGTTGAGGCTTTGAGAAGTGGTATG
TGTTGCCAGACCTGTCCCCTGTGTCTGGGCTGGGACAGACCGCTGTGGCTCATCATCA
GGGAGGGCAGATGTGAGGCAGTACTGCAGACTCCCGGCCACAGCCCTCAGTATCCC
CATGATGGCAGAGATGATCGGGAGGTCTGGCCCTTGCCTTCTCAATAGGACATGTCAC
TGCAACGGCAATTTCTCAGGACACAACCTGTGGGACGTGCCGTCTGGCTGGAGAGGAGCT
GCCTGTGACCAGAGGGTTCTCATAGTCAGGAGAAATCTTCTGGACTTAAGTAAAGAAAGAA
AAGAACCCTTTGTCCGGGCCCTGGATATGGCAAAGCGCACAACTCACCCCTTTATTTGTC
ATTGCCACCAGGAGATCAGAAGAAATACTGGGGCCAGATGGCAACACGCCACAATTTGAG
AACATTTCCATTTATACTACTTTGTTGGACACACTATTACTCAGTCAAAAAGACTTTT
CTTGGGGTAGGACAGGAAAGCTTTGGTGAAGTGGATTTCTCTCATGAGGGACCAGCTTTT
CTCACATGGCACAGGTACCACCTCTGCGTCTGGAGAAAGACATGCAGGAAATGTTGCAA
GAGCCTTCTTTCTCCCTTCTTACTGGAATTTTGAACGGGGAAAAATGTCTGTGATATC
TGACCGGATGACTTGATGGGATCCAGAAGCAACTTTGATTCCACTCTAATAAGCCCAAAC
TCTGTCTTTTCTCAATGGCGAGTGGTCTGTGACTCCTTGGAAGATTATGATACCCCTGGGA
ACACTTTGTAACAGCACCGAGGATGGGCAATTAGGAGAAATCCAGCTGGAAATGTGGCC
AGACCAATGGTGCAACGTCTTCTGAACCACAGGATGTCGCTCAGTGTGGAAGTTGGT
TTATTTGACACGCCTCTTTTTATTCCAACCTACAAAACAGTTTCCGAAACACAGTGGA
GGTTACAGTGACCCACGGGAAAGTATGACCCTGCTGTTGGAAGTCTTCACAATTTGGCT
CATCTATTCTGAATGGAACAGGGGGACAAACCATTTGTCTCCAATGATCCTATTTTT
GTCCCTCTGCACACCTTACAGATGCAGTCTTTGATGAATGGCTGAGGAGATACAATGCT
GATATATCCACATTTCCATTGGAAAATGCCCTATTGGACATAATAGACAATACAACATG
GTGCCATTCTGGCCCCAGTCACCAACACAGAAATGTTTGTACTGCTCCAGACAACCTG
GGATACACTTATGAAATTCATGGCCAAGTCGGGAGTTTGTGTACTGAGATAATTGCC
ATAGCAGTAGTTGGCGCTTTGTTACTGTTGCACTATTTTTGGGACTGCTTCTTATCTG
ATTCGTGCCAGACGCAGTATGGATGAAGCTAACCCAGCCTCTCCTCACTGATCAGTATCAA
TGCTATGCTGAAGAATATGAAAACTCCAGAATCTAATCAGTCTGTGGTCTAA
    
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Clone variation with respect to NM_000550.2

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_000550 unedited
NGGTCAAATTTGTATACGACTCTATAGGGCGGCCGCGATTCCGGCACGAGGAAGAAACA
CAGCAAATATAAAACATTCAATTCTAAGAGAAGTTCATCAGAGACATCCTTCAGGATTGT
GAGCTGGATTTTCTCTACGTGCTTCAGTCTTCTACACAAAGAGCTGCAAACAGGTC
TTTGTGTTGCACTTTATTTCAAGCAGAATGAGTGTCTTAACTCCTCTCTCTGGGCTG
TATCTTCTTCCCCTTGTACTTTTTAGCAGGCCCGGGCTCAATCCCAAGACAGTGTGC
CACTGTTGAGGCTTTGAGAAGTGGTATGTGTTGCCAGACCTGTCCCCTGTGTCTGGGCC
TGGGACAGACCGCTGTGGCTCATCATCAGGGAGGGGACAGATGTGAGGCAGTACTGCAGA
CTCCCGGCCCCACAGCCCTCAGTATCCCCATGATGGCAGAGATGATCGGGAGGTCTGGCC
CTTGGCCTTCTTCAATAGGACATGTCACTGCAACGGCAATTTCTCAGGACACAACGTGG
GACGTGCCGTCTGGCTGGAGAGGAGTGCCTGTGACCAGAGGGTTCTCATAGTCAGGAG
AAATCTTCTGGACTTAAGTAAAGAAGAAAAGAACCCTTTGTCCGGGCCCTGGATATGGC
AAAGCGCACAACTCACCCCTTTATTTGTCAATTGCCACCAGGAGATCAGAAGAAATACTGGG
GCCAGATGGCAACACGCCACAATTTGAGAACATTTCCATTTATAACTANCTTTGTTTGG
CACACTATTACTCAGTCAAAAAGACTTTCTTGGNNGTAGGACAGGNAAGCTTGGNNTGA
AGNTGGATTTCTCTCATGAGGGACCAGCTTTNCTACATGGCACAGGTACCACCTNCTGCG
TCTGGNAGAAGACATGCAGAAATGC
    
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| 3' Read Nucleotide Sequence: | >OriGene 3' read for NM_000550 unedited ACGCAATCTAGTATCGAGTTTTTTTTTTTTTTTTTTTTTAATATGTTAATATTTTACTTGAA AATACATAAAAAGGCTGATAAATGATAAGAGAATGCTATTTAAATTAAGCACAGTGATTGG AATACTATTTATAGAGCAGTATAAACATGTTCTCCATATGCCTTCTCCATGGACCTCTA AGATGTTAGAAGAGACATTAGTAGGTGAAATGTAAGGATAGGTAGTTCCTTTTTTCAGCGA ATTGAGAGGCAGGAAAACACAGTGGCAAACACAGGCAATATCCATTGTTGCTTAAGAAAG TGAAGATTTTCCCTCTCCAAAGTTTGACAAAGATGGTGATTTTTTGTGTAGCCTTGAACC TGAGACTAAATAGTATATGTTGACTAAATAATATATTTGATTGGTCTCAAACCTGGAACA TTAATTTGAAAAGGTTAATCAAAATTTTCATTGGTTTATAACTACACATAATTTTCTTTAA TTAATAACTGAGGTTTTCTTTAAATCTGTTGACAAATATCCATGAATGGAATGAGTTTA TGTTTTAACATTTTAGAAATGCCATTCATGTATTTAAGTGGACATTTACTATCAAACA TTATTTTCTTTACAGTAAACAAAGCATGGTAGTTCACTTATATCTTCACATACTCAAC CTTTAAATCATGCCAAAGATCTTCACACTATCCCTTAAATATCATGGAGTTTAGTGCAT TCACATTTTAAATAGAAGTAAACTAAAACCCATTGANAAGATTCTGAAGGTCTCCAG CTTTGAAAGTATGCCTAGAACTCTATNCTAACTATGCTTGGTTAGAAGAAGGCATAAGTG AAGAAATCAGTATACCTAATCATATATCAACCAGTGGTTTTGAACTATGCTANGAAGTGG CTTTGTAACCCGACGATAGATCTGGGTTTCATATTCTACTACTGTACGACNGAGAAGCG GTACTACCACGGGGG |
| Restriction Sites: | NotI-NotI |
| ACCN: | NM_000550 |
| Insert Size: | 2800 bp |
| OTI Disclaimer: | Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP). |
| 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: | NM_000550.1 , NP_000541.1 |
| RefSeq Size: | 2797 bp |
| RefSeq ORF: | 1614 bp |
| Locus ID: | 7306 |
| UniProt ID: | P17643 |
| Cytogenetics: | 9p23 |
| Domains: | tyrosinase |

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Melanogenesis, Metabolic pathways, Tyrosine metabolism

Gene Summary: 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]