

## Product datasheet for **SC122613**

### TRP2 (DCT) (NM\_001922) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TRP2 (DCT) (NM_001922) Human Untagged Clone
Tag:	Tag Free
Symbol:	TRP2
Synonyms:	TRP-2; TYRP2
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:**

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>OriGene sequence for NM_001922 edited
CTCATTA AATTTGGTGTGTAGAGGCGCTTCTAAGGAAATTAAGTCTGTTAGTTGTTTGAA
TCACATAAAATTTGTGTGTGCACGTTTCATGTACACATGTGCACACATGTAACCTCTGTGAT
TCTTGTGGGTATTTTTTAAGAAGAAAGGAATAGAAAGCAAAGAAAAATAAAAAACTG
AAAAGAAAAGACTGAAAGAGTAGAAGATAAGGAGAAAAGTACGACAGAGACAAGGAAAGT
AAGAGAGAGAGAGAGCTCTCCCAATTATAAAGCCATGAGCCCCCTTTGGTGGGGTTTCT
GCTCAGTTGCTTGGGCTGCAAAATCCTGCCAGGAGCCAGGGTCAGTTCCTCCCGAGTCTG
CATGACGGTGGACAGCCTAGTGAACAAGGAGTGCTGCCACGCCTGGGTGCAGAGTCGGC
CAATGTCTGTGGCTCTCAGCAAGGCCGGGGCAGTGCACAGAGGTGCGAGCCGACACAAG
GCCCTGGAGTGGTCCCTACATCCTACGAAACCAGGATGACCGTGAGCTGTGGCCAAGAAA
ATTCTTCCACCGGACCTGCAAGTGCACAGGAACTTTGCCGGCTATAATTGTGGAGACTG
CAAGTTTGGCTGGACCGTCCCAACTGCGAGCGGAAGAAACCACAGTGATTCGGCAGAA
CATCCATTCTTGTAGTCTCAGGAAAGAGAGCAGTTCTTGGGCGCCTTAGATCTCGCGAA
GAAGAGAGTACACCCGACTACGTGATCACCACACAACACTGGCTGGGCCTGCTTGGGCC
CAATGGAACCCAGCCGAGTTTGCCAATGCAGTGTATGATTTTTTTGTGTGGCTCCA
TTATTATTCTGTTAGAGATACATTATTAGGACCAGGACGCCCTACAGGGCCATAGATTT
CTCACATCAAGGACCTGCATTTGTTACCTGGCACCCGGTACCATTTGTTGTGTCTGAAAAG
AGATCTCCAGCGACTCATTGGCAATGAGTCTTTTGTCTTGGCCCTACTGGAACCTTGGCCAC
TGGGAGGAACGAGTGTGTGTGTGTGTACAGACCAGCTGTTTGGGGCAGCGAGACCAGACGA
TCCGACTCTGATTAGTCGGAACCAAGATTCTCCAGCTGGGAACTGTCTGTGTATAGCTT
GGATGACTACAACCACCTGGTCACTTGTGCAATGGAACCTATGAAGTTTGTGAGAAG
AAATCAAATGGGAAGAAACAGCATGAAATTGCCAACCTTAAAAGACATACGAGATTGCCT
GTCTCTCCAGAAGTTTGACAATCCTCCCTTCTTCCAGAACTCTACCTTCAGTTTCAGGAA
TGCTTTGGAAGGTTTGATAAAGCAGATGGGACTCTGGATTCTCAAGTGATGAGCCTTCA
TAATTTGGTTCATTCTTCTGAAACGGGACAAACGCTTTGCCACATTCAGCCGCCAATGA
TCCCATTTTTGTGGTCTTCTTCTTACTGATGCCATCTTGTGATGAGTGGATGAAAAG
ATTTAATCCTCTGCAGATGCCTGGCCTCAGGAGCTGGCCCTATTGGTCACAATCGGAT
GTACAACATGGTCTTCTTCTTCCCTCCAGTACTAATGAAGAACTCTTTTAACTCAGA
CCAACCTGGCTACAGCTATGCCATCGATCTGCCAGTTTCAGTTGAAGAACTCCAGGTTG
GCCCAACTCTCTTAGTAGTCATGGGAACACTGGTGGCTTTGGTTGGTCTTTTTGTGCT
GTTGGCTTTCTCAATATAGAAGACTTCGAAAAGGATATACACCCTAATGGAGACACA
TTTAAGCAGCAAGAGATACACAGAAGAAGCCTAGGGTGCTCATGCCTTACCTAAGAGAAG
AGGCTGGCCAAGCCACAGTTCTGACGCTGACAATAAAGGAACTAATCCTCACTGTTCCCT
CTTGAGTTGAAGATCTTGTACATAGGTTCTTCTATAGTGTATGATCTCATTGAGAAGA
TGCTTAGCTGTAGTTCCGCTTTGCTTGTGTTAACAACCCAACTAAAGTGCTTGAG
GCTACCTCTACCTTCAAATAAAGATAGACCTGACAATTTGTGATATCTAATAATAACCC
CCCCAATATTGATTAAGCCTCCTCTTTTCTGAAAGCATTTAAAAAAAAAAAAAAAA
    
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_001922 unedited NNGGTGTTCAAAATTTGTAATACGACTCACTATAGGGCCGCGCNAATTCCTCGGATAT CGTCGACCCACGCGTCCGCTCATTAAATTTGGTTGTTAGAGGCGCTTCTAAGGAAATTA GTCTGTTAGTTGTTTGAATCACATAAAATTGTGTGTGCACGTTTCATGTACACATGTGCAC ACATGTAACCTCTGTGATTCTTGTGGGTATTTTTTAAGAAGAAAGGAATAGAAAGCAA GAAAAATAAAAAATACTGAAAAGAAAAGACTGAAAGAGTAGAAGATAAGGAGAAAAGTAC GACAGAGACAAGGAAAGTAAGAGAGAGAGAGACTCTCCAATTATAAAGCCATGAGCCC CCTTTGGTGGGGTTTCTGCTCAGTTGCTTGGGCTGCAAAATCCTGCCAGGAGCCAGGG TCAGTTCCCCGAGTCTGCATGACGGTGGACAGCCTAGTGAACAAGGAGTCTGCCACG CCTGGGTGCAGAGTCGGCCAATGTCTGTGGCTCTCAGCAAGGCCGGGGCAGTGCACAGA GGTGCAGCCGACACAAGGCCCTGGAGTGGTCCCTACATCCTACGAAACCAGGATGACCG TGAGCTGTGGCCAAGAAAATTCTCCACCGACCTGCAAGTGCACAGGAAACTTTGCCGG CTATAATTGTGGAGACTGCAAGTTTGGCTGGACCGGTCCCAACTGCGAGCGGAAGAAACC ACCAGTGATTCGGCAGAACATCCATTCTTGTGCTCCTCANGAAAGAGAGCAGTTCTTGGG CGCCTTAGATCTCGCAAGAGAGAGTACACCCCGACTACGTGATCACCACACAACACTGG CTGGGCCTGCTTGGGCCAATGGAACCAGCCGAGTTTGCCAACCTGCAGTGTATGATT TTTTTGTGTGGCTCCATTAT
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_001922
<b>Insert Size:</b>	2157 bp
<b>OTI Disclaimer:</b>	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).
<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_001922.2</a> , <a href="#">NP_001913.2</a>
<b>RefSeq Size:</b>	2291 bp
<b>RefSeq ORF:</b>	1560 bp
<b>Locus ID:</b>	1638
<b>UniProt ID:</b>	<a href="#">P40126</a>
<b>Cytogenetics:</b>	13q32.1
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Melanogenesis, Metabolic pathways, Tyrosine metabolism

**Gene Summary:**

Catalyzes the conversion of L-dopachrome into 5,6-dihydroxyindole-2-carboxylic acid (DHICA) (PubMed:8306979). Involved in regulating eumelanin and phaeomelanin levels.

[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) represents the more abundant transcript. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.