

Product datasheet for **SC323133**

TRP2 (DCT) (NM_001129889) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TRP2 (DCT) (NM_001129889) Human Untagged Clone
Tag:	Tag Free
Symbol:	DCT
Synonyms:	TRP-2; TYRP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

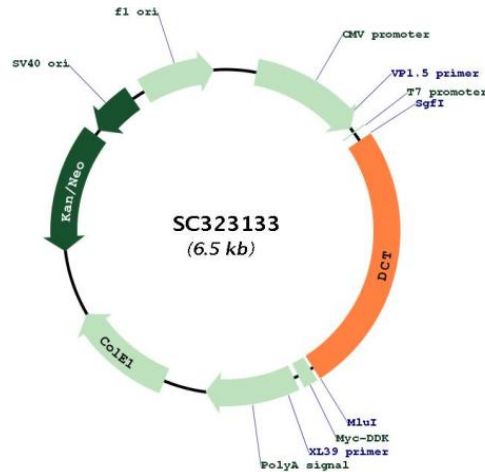


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Fully Sequenced ORF: >SC323133 representing NM_001129889.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCACGATCGCC
ATGAGCCCCCTTTGGTGGGGTTTCTGCTCAGTTGCTTGGGCTGCAAAATCCTGCCAGGAGCCCAGGGT
CAGTTCGCCCGAGTCTGCATGACGGTGGACAGCCTAGTGAACAAGGAGTGCTGCCACGCCTGGGTGCA
GAGTCGGCCAATGTCTGTGGCTCTCAGCAAGGCCGGGGGCAAGTGCACAGAGGTGCCAGCCGACACAAGG
CCCTGGAGTGGTCCCTACATCCTACGAAACCAGGATGACCGTGAGCTGTGGCCAAGAAAATCTTCCAC
CGGACCTGCAAGTGCACAGGAACTTTGCCGGCTATAATTGTGGAGACTGCAAGTTTGGCTGGACCGGT
CCCAACTGCGAGCGGAAGAAACCACAGTATTGCGCAGAACATCCATTCTTGTGCTCAGGAAAGA
GAGCAGTTCTTGGGCGCCTTAGATCTCGGAAGAAGAGAGTACACCCGACTACGTATCACCACACAA
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TGTGATGTGTGTACAGACCAGCTGTTTGGGGCAGCGAGACCAGACGATCCGACTCTGATTAGTCGGAAC
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CGGATGTACAACATGGTTCCTTTCTTCCCTCCAGTACTAATGAAGAACTTTTTAACCTCAGACCAA
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TTAGTAGTCATGGGAACACTGGTGGCTTTGGTTGGTCTTTTTGTGCTGTTGGCTTTTCTCAATATAGA
AGACTTCGAAAAGGATATACACCCTAATGGAGACACATTAAGCAGCAAGAGATACACAGAAGAAGCC
TAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI

Plasmid Map:


ACCN: NM_001129889

Insert Size: 1659 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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001129889.2](#)

RefSeq Size: 4680 bp

RefSeq ORF: 1659 bp

Locus ID: 1638

UniProt ID: [P40126](#)

Cytogenetics: 13q32.1

Protein Families:	Transmembrane
Protein Pathways:	Melanogenesis, Metabolic pathways, Tyrosine metabolism
MW:	62.9 kDa
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) includes two alternate in-frame exons and is predicted to encode a slightly longer protein isoform (2) compared to isoform 1. 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.</p>