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Product datasheet for RC204486

TRP2 (DCT) (NM_001922) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TRP2 (DCT) (NM_001922) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TRP2
Synonyms:	TRP-2; TYRP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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ORF Nucleotide Sequence:

>RC204486 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGCCCCCTTTGGTGGGGGTTTCTGCTCAGTTGCTTGGGCTGCAAAATCCTGCCAGGAGCCCAGGGTC
AGTTCCCCCGAGTCTGCATGACGGTGGACAGCCTAGTGAACAAGGAGTGCTGCCCACGCCTGGGTGCAGA
GTCGGCCAATGTCTGTGGCTCTCAGCAAGGCCGGGGGCAGTGCACAGAGGTGCGAGCCGACACAAGGCCC
TGGAGTGGTCCCTACATCCTACGAAACCAGGATGACCGTGAGCTGTGGCCAAGAAAATTCTTCCACCGGA
CCTGCAAGTGCACAGGAAACTTTGCCGGCTATAATTGTGGAGACTGCAAGTTTGGCTGGACCGGTCCCAA
CTGCGAGCGGAAGAAACCACCAGTGATTCGGCAGAACATCCATTCCTTGAGTCCTCAGGAAAGAGAGCAG
TTCTTGGGCGCCTTAGATCTCGCGAAGAAGAGAGTACACCCCGACTACGTGATCACCACACAACACTGGC
TGGGCCTGCTTGGGCCCAATGGAACCCAGCCGCAGTTTGCCAACTGCAGTGTTTATGATTTTTTTGTGTG
GCTCCATTATTATTCTGTTAGAGATACATTATTAGGACCAGGACGCCCCTACAGGGCCATAGATTTCTCA
CATCAAGGACCTGCATTTGTTACCTGGCACCGGTACCATTTGTTGTGTCTGGAAAGAGATCTCCAGCGAC
TCATTGGCAATGAGTCTTTTGCTTTGCCCTACTGGAACTTTGCCACTGGGAGGAACGAGTGTGATGTGTG
TACAGACCAGCTGTTTGGGGCAGCGAGACCAGACGATCCGACTCTGATTAGTCGGAACTCAAGATTCTCC
AGCTGGGAAACTGTCTGTGATAGCTTGGATGACTACAACCACCTGGTCACCTTGTGCAATGGAACCTATG
AAGGTTTGCTGAGAAGAAATCAAATGGGAAGAAACAGCATGAAATTGCCAACCTTAAAAGACATACGAGA
TTGCCTGTCTCTCCAGAAGTTTGACAATCCTCCCTTCTTCCAGAACTCTACCTTCAGTTTCAGGAATGCT
TTGGAAGGGTTTGATAAAGCAGATGGGACTCTGGATTCTCAAGTGATGAGCCTTCATAATTTGGTTCATT
CCTTCCTGAACGGGACAAACGCTTTGCCACATTCAGCCGCCAATGATCCCATTTTTGTGGTTCTTCATTC
CTTTACTGATGCCATCTTTGATGAGTGGATGAAAAGATTTAATCCTCCTGCAGATGCCTGGCCTCAGGAG
CTGGCCCCTATTGGTCACAATCGGATGTACAACATGGTTCCTTTCTTCCCTCCAGTGACTAATGAAGAAC
TCTTTTTAACCTCAGACCAACTTGGCTACAGCTATGCCATCGATCTGCCAGTTTCAGTTGAAGAAACTCC
AGGTTGGCCCACAACTCTCTTAGTAGTCATGGGAACACTGGTGGCTTTGGTTGGTCTTTTTGTGCTGTTG
GCTTTTCTTCAATATAGAAGACTTCGAAAAGGATATACACCCCTAATGGAGACACATTTAAGCAGCAAGA
GATACACAGAAGAAGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC204486 protein sequence
Red=Cloning site Green=Tags(s)

MSPLWWGFLLSCLGCKILPGAQGQFPRVCMTVDSLVNKECCPRLGAESANVCGSQQGRGQCTEVRADTRP
WSGPYILRNQDDRELWPRKFFHRTCKCTGNFAGYNCGDCKFGWTGPNCERKKPPVIRQNIHSLSPQEREQ
FLGALDLAKKRVHPDYVITTQHWLGLLGPNGTQPQFANCSVYDFFVWLHYYSVRDTLLGPGRPYRAIDFS
HQGPAFVTWHRYHLLCLERDLQRLIGNESFALPYWNFATGRNECDVCTDQLFGAARPDDPTLISRNSRFS
SWETVCDSLDDYNHLVTLCNGTYEGLLRRNQMGRNSMKLPTLKDIRDCLSLQKFDNPPFFQNSTFSFRNA
LEGFDKADGTLDSQVMSLHNLVHSFLNGTNALPHSAANDPIFVVLHSFTDAIFDEWMKRFNPPADAWPQE
LAPIGHNRMYNMVPFFPPVTNEELFLTSDQLGYSYAIDLPVSVEETPGWPTTLLVVMGTLVALVGLFVLL
AFLQYRRLRKGYTPLMETHLSSKRYTEEA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6013_e08.zip

Restriction Sites: SgfI-MluI

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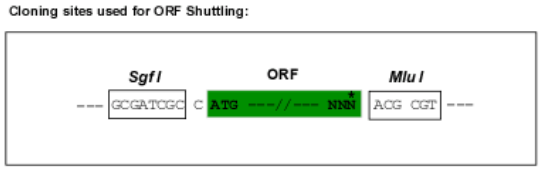
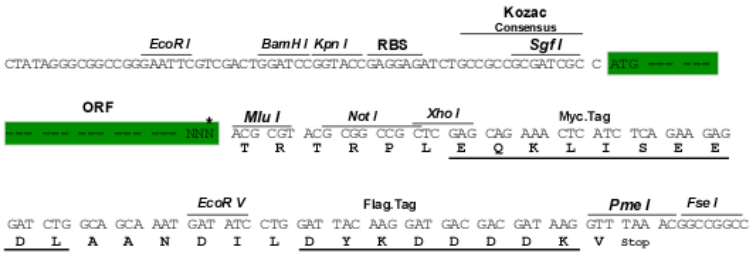
Cloning Scheme:





* The last codon before the Stop codon of the ORF

ACCN: NM_001922

ORF Size: 1557 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_001922.5

RefSeq Size: 2304 bp

RefSeq ORF: 1560 bp

Locus ID: 1638

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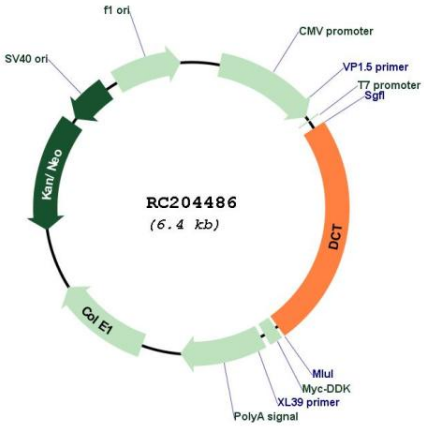
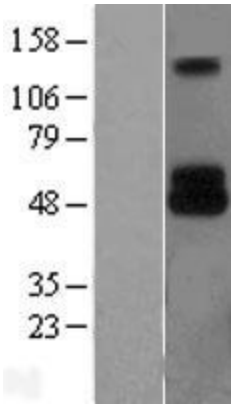
UniProt ID:	P40126
Cytogenetics:	13q32.1
Protein Families:	Transmembrane
Protein Pathways:	Melanogenesis, Metabolic pathways, Tyrosine metabolism
MW:	59.1 kDa
Gene Summary:	Catalyzes the conversion of L-dopachrome into 5,6-dihydroxyindole-2-carboxylic acid (DHICA) (PubMed:8306979). Involved in regulating eumelanin and phaeomelanin levels. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC204486



Western blot validation of overexpression lysate (Cat# [LY419657]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204486 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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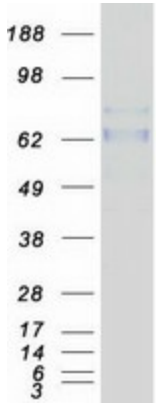

Coomassie blue staining of purified DCT protein (Cat# [TP304486]). The protein was produced from HEK293T cells transfected with DCT cDNA clone (Cat# RC204486) using MegaTran 2.0 (Cat# [TT210002]).

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