

Product datasheet for **RG204486**

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:	TurboGFP
Symbol:	TRP2
Synonyms:	TRP-2; TYRP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG204486 representing NM_001922
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGCCCCCTTTGGTGGGGTTTCTGCTCAGTTGCTTGGGCTGCAAATCCTGCCAGGAGCCAGGGTC
 AGTCCCCCGAGTCTGCATGACGGTGGACAGCCTAGTGAACAAGGAGTGCTGCCACGCCTGGGTGCAGA
 GTCGGCCAATGTCTGTGGCTCTCAGCAAGGCCGGGGCAGTGCACAGAGGTGCGAGCCGACACAAGGCC
 TGGAGTGGTCCCTACATCCTACGAAACCAGGATGACCGTGAGCTGTGGCCAAGAAAATTCTCCACCGGA
 CCTGCAAGTGCACAGGAACTTTGCCGGCTATAATTGTGGAGACTGCAAGTTTGGCTGGACCGGTCCCAA
 CTGCGAGCGGAAGAAACCACCAGTGATTCGGCAGAACATCCATTCCTTGTAGTCTCAGGAAAGAGAGCAG
 TTCTTGGGCGCCTTAGATCTCGGAAGAAGAGAGTACACCCCGACTACGTGATCACCACACAACACTGGC
 TGGGCTGCTTGGGCCAATGGAACCCAGCCGAGTTTGGCAACTGCAGTGTATGATTTTTTTGTGTG
 GCTCCATTATTCTGTAGAGATACATTATTAGGACCAGGACGCCCTACAGGGCCATAGATTTCTCA
 CATCAAGGACCTGCATTTGTACCTGGCACCGGTACCATTTGTTGTGTCTGGAAAGAGATCTCCAGCGAC
 TCATTGGCAATGAGTCTTTTGTCTTGCCTACTGGAACCTTGGCCACTGGGAGGAACGAGTGTGATGTGTG
 TACAGACCAGCTGTTGGGGCAGCGAGACCAGACGATCCGACTCTGATTAGTCGGAACCTCAAGATTCTCC
 AGCTGGGAAACTGTCTGTGATAGCTTGGATGACTACAACCACCTGGTCACCTTGTGCAATGGAACCTATG
 AAGTTTGTCTGAGAAGAAATCAAATGGGAAGAAACAGCATGAAATTGCCAACCTAAAAGACATACGAGA
 TTGCCTGTCTCCTCAGAAGTTTGACAATCCTCCCTTCTCCAGAAGTCTACCTTCAGTTTCAGGAATGCT
 TTGGAAGGGTTTGATAAAGCAGATGGGACTCTGGATTCTCAAGTGTGAGCCTTCATAATTTGGTTCATT
 CCTTCTGAACGGGACAAACGCTTTGCCACATTCAGCCGCAATGATCCCATTTTTGTGGTCTTCCATT
 CTTTACTGATGCCATCTTTGATGAGTGGATGAAAAGATTAATCCTCCTGCAGATGCCTGGCCTCAGGAG
 CTGGCCCCATTGGTCACAATCGGATGTACAACATGGTTCCTTTCTCCCTCCAGTACTAATGAAGAAC
 TCTTTTTAACCTCAGACCAACTTGGCTACAGCTATGCCATCGATCTGCCAGTTTCAGTTGAAGAACTCC
 AGGTTGGCCCAACTCTTTAGTAGTCATGGGAACACTGGTGGCTTTGGTTGGTCTTTTTGTGCTGTTG
 GCTTTTCTCAATATAGAAGACTTCGAAAAGGATATACCCCTAATGGAGACACATTTAAGCAGCAAGA
 GATACACAGAAGAAGCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG204486 representing NM_001922
 Red=Cloning site Green=Tags(s)

MSPLWWGFLLSCLGCKILPGAQQFPRVCMVDSL VNKECCPRLGAESANVCGSQQGRGQCTEVRADTRP
 WSGPYILRNQDDRELWPRKFFHRTCKCTGNFAGYNCGDCKFGWTGPNCERKKPPVIRQNIHSLSPQEREQ
 FLGALDLAKRVPDYVITTTQHWLGLLGPNGTQPQFANCSVYDFVWLHYYSVRDILLGGRPYRAIDFS
 HQGPAFVTWHRYHLLCLERDLQRLIGNESFALPYWNFATGRNECDVCTDQLFGAARPDDPTLISRNSRFS
 SWETVCDLDDYNHLVTL CNGTYEGLLRNQMRNSMKLPTLKDIRDCLSLQKFDNPPFFQNSTFSFRNA
 LEGFDKADGTLDSQVMSLHNLVHSFLNGTALPHSAANDPIFVVLHSFTDAIFDEWMKRFNPPADAWPQE
 LAPIGHNRMYNMVPFFPPVTNEELFLTSQQLGYSYAIDL PVSVEETPGWPTLLVVMGTLVALVGLFVLL
 AFLQYRRRLKGYTPLMETHLSSKRYTEEA

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


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.

RefSeq: [NM_001922.5](#)

RefSeq Size: 2291 bp

RefSeq ORF: 1560 bp

Locus ID: 1638

UniProt ID: [P40126](#)

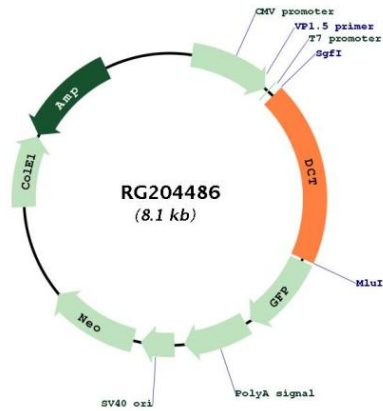
Cytogenetics: 13q32.1

Protein Families: Transmembrane

Protein Pathways: 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]

Product images:



Circular map for RG204486