

Product datasheet for **RG204801**

C2ORF25 (MMADHC) (NM_015702) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	C2ORF25
Synonyms:	C2orf25; cbID; CL25022
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG204801 representing NM_015702
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGCCAATGTGCTTTGTAACAGAGCCAGACTGGTTTCCTATCTCCAGGATTTGCTCTTTAGTTAAAA
GGGTTGTCAATCCCAAAGCCTTTTCGACTGCAGGATCATCAGGTTCCGGATGAGTCTCATGTGGCTGCTGC
ACCTCCAGATATATGCTCTCGAACAGTGTGGCCTGATGAACTATGGGACCTTTGGACCTCAAGATCAG
AGGTTCCAGCTTCTGGGAACATAGGTTTGTATTGTCACCTCAATGGGACTGCTTCACAGAAGAAAAGCC
TGGTTCAAAAACCTTTCCTGATGTTCTAGCAGAACCTTTATCAAGTGAAAGACATGAGTTTGTGATGGC
ACAATATGTGAATGAATTTAGGGTAATGATGCACCTGTTGAACAAGAAATTAACAGTGCAGAAACTTAC
TTTGAAAGTGCCAGAGTAGAGTGTGAATACAACATGTCCAGAATTGCTGCGAAAAGATTTGAATCAC
TGTTTCCAGAAGTAGCTAATGGCAAATAATGATTCTGACTGTAACACAAAAAATAAGAATGATATGAC
TGTTTGGAGTGAAGAAGTAGAAATTGAAAGAGAAGTGCTCTTAGAAAAGTTCAATCAATGGTGCTAAGGAA
ATTTGCTATGCTCTTCGAGCTGAGGGTTATTGGGCTGACTTTATTGACCCATCATCTGGTTTGGCATT
TTGGACCATATACAACAACACTCTTTTGAAGTGAACGCTACCGACATTTAGGATTCTCTGTTGA
TGACCTTGGATGCTGTAAGTGAATTCGTCATAGTCTCTGGGTACCCATGTAGTTGTAGGGAGTATCTTC
ACTAATGCAACACCAGACAGCCATATTATGAAGAAATTAAGTGAAAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



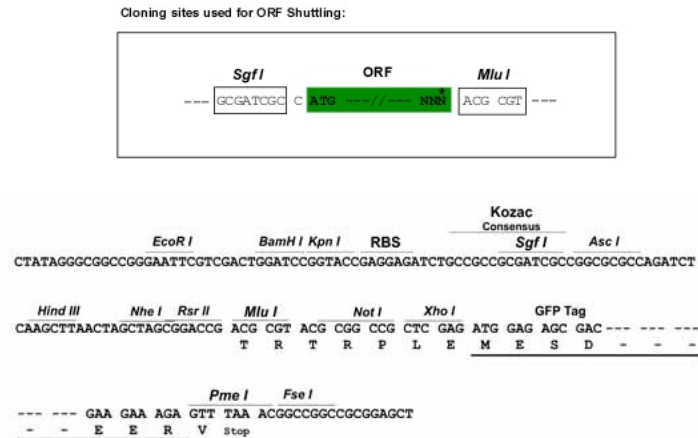
Protein Sequence: >RG204801 representing NM_015702
Red=Cloning site Green=Tags(s)

MANVLCNRARLVSYLPGFCSLVKRVVNPKAFSTAGSSGSDSHVAAAPPDICSRTVWPDETMGPFQPDQ
RFQLPGNIGFDCHLNGTASQKKSLVHKTLDPDLAEPLSSERHEFVMAQYVNEFQGNDAPEVEQINSAEITY
FESARVECAIQTCELLRKDFESLFPEVANGKLMILTVTQKTNDMTVWSEEVEIEREVLLEKFINGAKE
ICYALRAEGYWADFIDPSSGLAFFGPYTNNTLFETDERYRHLGFSVDDLGCCKVIRHSLWGHVHVGSIF
TNATPD SHIMKKLSGN

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_015702

ORF Size: 888 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_015702.1](#), [NP_056517.1](#)

RefSeq Size: 1416 bp

RefSeq ORF: 891 bp

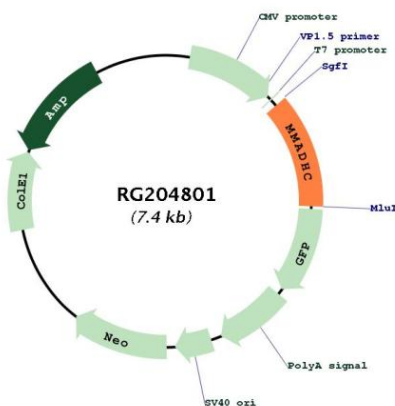
Locus ID: 27249

UniProt ID: [Q9H3L0](#)

Cytogenetics: 2q23.2

Gene Summary: This gene encodes a mitochondrial protein that is involved in an early step of vitamin B12 metabolism. Vitamin B12 (cobalamin) is essential for normal development and survival in humans. Mutations in this gene cause methylmalonic aciduria and homocystinuria type cblD (MMADHC), a disorder of cobalamin metabolism that is characterized by decreased levels of the coenzymes adenosylcobalamin and methylcobalamin. Pseudogenes have been identified on chromosomes 11 and X.[provided by RefSeq, Nov 2008]

Product images:



Circular map for RG204801