

Product datasheet for **RG223810**

CRABP1 (NM_004378) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CRABP1 (NM_004378) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: CRABP1
Synonyms: CRABP; CRABP-I; CRABPI; RBP5
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG223810 representing NM_004378
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCCAACTTCGCCGGCACCTGGAAGATGCGCAGCAGCGAGAATTCGACGAGCTGCTGAAGGCACTGG
GTGTGAACGCCATGCTGAGGAAAGTGGCCGTAGCGGCTGCGTCCAAGCCGCACGTGGAGATCCGCCAGGA
CGGGGATCAGTTCTACATCAAGACATCCACCACCGTGCACCACTGAGATCAACTTCAAGGTCGGAGAA
GGCTTTGAGGAGGAGACCGTGGACGGACGCAAGTGCAGGAGTTTAGCCACTTGGGAGAATGAGAACAAGA
TCCACTGCACCCAACTTCTTGAAGGGGACGGCCCCAAAACCTACTGGACCCGTGAGCTGGCCAACGA
TGAAGTTATCCTGACGTTTGGCGCCGATGACGTGGTCTGCACCAGAATTTATGTCCGGGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG223810 representing NM_004378
Red=Cloning site Green=Tags(s)
MPNFAGTWKMRSSNFDELLKALGVNAMLKRVAVAAASKPHVEIRQDGDQFYIKTSTTVRTEINFKVGE
GFEEETVDGRKCRSLATWENENKIHCTQTLLEGDPKTYWTRELANDELILTFGADDVVCTRIYVRE

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_004378

ORF Size: 411 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_004378.1](#), [NP_004369.1](#)

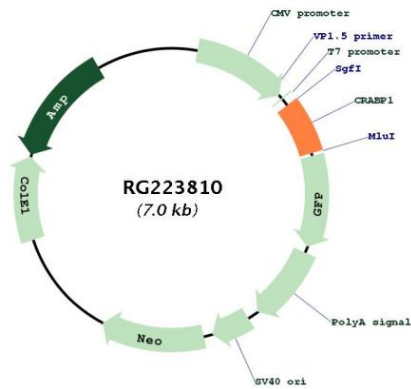
RefSeq Size: 735 bp

RefSeq ORF: 414 bp

Locus ID: 1381
UniProt ID: [P29762](#)
Cytogenetics: 15q25.1

Gene Summary: This gene encodes a specific binding protein for a vitamin A family member and is thought to play an important role in retinoic acid-mediated differentiation and proliferation processes. It is structurally similar to the cellular retinol-binding proteins, but binds only retinoic acid at specific sites within the nucleus, which may contribute to vitamin A-directed differentiation in epithelial tissue. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG223810