

Product datasheet for **RG228879**

CANT1 (NM_001159773) Human Tagged ORF Clone

Product data:

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|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | CANT1 (NM_001159773) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | CANT1 |
| Synonyms: | DBQD; DBQD1; EDM7; SCAN-1; SCAN1; SHAPY |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >RG228879 representing NM_001159773 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCCGTGCAGCTGTCTGAGCACCCGGAATGGAATGAGTCTATGCACTCCCTCCGGATCAGTGTGGGG
GCCTTCTGTGCTGGCGTCCATGACCAAGGCCGCGGACCCCGCTTCGCCCCGCTGGAAGGTGATCCT
GACGTTCTTTGTGGTGTGCCATCCTCTGGTCTGTCTCCACCGCCGCCCCGGCAGGCCCCCC
ACCCACAATGCACAACTGGAGGCTCGGCCAGGCGCCGCAACTGGTACAATGACACCTACCCCTGT
CTCCCCACAAAGGACACCGGCTGGGATTCGGTATCGAATCGCAGTTATCGCAGACCTGGACACAGAGTC
AAGGGCCCAAGAGGAAAACACCTGGTTCAGTTACCTGAAAAGGGCTACCTGACCCTGTCAGACAGTGGG
GACAAGGTGGCCGTGGAATGGGACAAAGACCATGGGGTCTGGAGTCCCACCTGGCGGAGAAGGGGAGAG
GCATGGAGCTATCCGACCTGATTGTTTTCAATGGGAACTCTACTCCGTGGATGACCGGACGGGGTTCGT
CTACCAGATCGAAGGCAGCAAAGCCGTGCCCTGGGTGATTCTGTCCGACGGCGACGGCACCGTGGAGAAA
GGCTTCAAGGCCGAATGGCTGGCAGTGAAGGACGAGCGTCTGTACGTGGGCGGCTGGGCAAGGAGTGGA
CGACCACTACGGGTGATGTGGTGAACGAGAACCCGGAGTGGGTGAAGGTGGTGGCTACAAGGCAGCGT
GGACCACGAGAAGTGGGTGTCCAACACAACGCCCTGCGGGCTGCTGCCGGCATCCAGCCGCCAGGCTAC
CTCATCCATGAGTCTGCCTGTGGAGTGACAGCTGCAGCGCTGGTTCTTCTGCCGCGCCGCGCCAGCC
AGGAGCGCTACAGCGAGAAGGACGACGAGCGCAAGGGCGCCAACCTGCTGCTGAGCGCTCCCTGACTT
CGGCGACATCGTGTGAGCCACGTGCGGGCGGTGGTCCCCACTCACGGTCTCTGTCCTTCAAGTTCATC
CCCAACACCGACGACCAGATCATTGTGGCCCTCAAATCCGAGGAGGACAGCGGCAGAGTCGCTCCTACA
TCATGGCCTTACGCTGGACGGCGCTTCTGTTGCCGGAGACCAAGATCGGAAGCGTGAATACGAAGG
CATCGAGTTCATT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG228879 representing NM_001159773
 Red=Cloning site Green=Tags(s)

MPVQLSEHPEWNESMHSRLRISVGGLPVLASMTKAADPRFRPRWKVILTFVGAAILWLLCSHRPAPGRPP
 THNAHNWRLGQAPANWYNDTYPLSPPQRTFAGIRYRIAVIADLDTESRAQEENTWFSYLKKGYLTLSDSG
 DKVAVVEWDKDHGVLESHLAEKGRGMELESDLIVFNGKLYSVDDRTGVVYQIEGSKAVPWVILSDGDGTVEK
 GFKAEWLAVKDERLYVGGLGKEWTTTTGDVVNENPEWVKVVGKGSVDHENWVSNYNALRAAAGIQPPGY
 LIHESACWSDTLQRWFFLPRRASQERYSEKDDERKGANLLL SASPDFGDI AVSHVGAVVPTHGFSFKFI
 PNTDDQIIVALKSEEDSGRVASYIMAFITLDGRFLLPETKIGSVKYEIEFI

TRTRPLE - GFP Tag - V

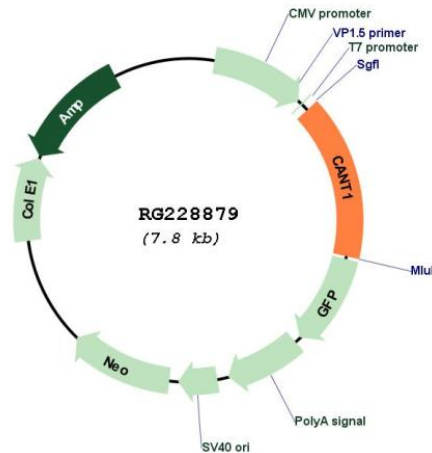
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_001159773

| | |
|-------------------------------|---|
| ORF Size: | 1203 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: | <ol style="list-style-type: none">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_001159773.2 |
| RefSeq Size: | 3350 bp |
| RefSeq ORF: | 1206 bp |
| Locus ID: | 124583 |
| UniProt ID: | Q8WVQ1 |
| Cytogenetics: | 17q25.3 |
| Protein Families: | Secreted Protein |
| Protein Pathways: | Purine metabolism, Pyrimidine metabolism |
| Gene Summary: | This protein encoded by this gene belongs to the apyrase family. It functions as a calcium-dependent nucleotidase with a preference for UDP. Mutations in this gene are associated with Desbuquois dysplasia with hand anomalies. Alternatively spliced transcript variants have been noted for this gene.[provided by RefSeq, Mar 2010] |