

Product datasheet for **RG228878**

CANT1 (NM_001159772) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CANT1 (NM_001159772) 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: >RG228878 representing NM_001159772
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCCCGTGCAGCTGTCTGAGCACCCGGAATGGAATGAGTCTATGCACTCCCTCCGGATCAGTGTGGGG
 GCCTTCTGTGTGGCGTCCATGACCAAGGCCGCGGACCCCGCTTCGCCCCGCTGGAAGGTGATCCT
 GACGTTCTTTGTGGTGTGCCATCCTCTGGTGTCTGCTCCACCGCCGGCCCCGGCAGGCCCCCC
 ACCCACAATGCACAACTGGAGGCTCGGCCAGGCGCCGCAACTGGTACAATGACACCTACCCCTGT
 CTCCCCACAAAGGACACCGGCTGGGATTCGGTATCGAATCGCAGTTATCGCAGACCTGGACACAGAGTC
 AAGGGCCCAAGAGGAAAACACCTGGTTCAGTTACCTGAAAAGGGCTACCTGACCCTGTCAGACAGTGGG
 GACAAGGTGGCCGTGGAATGGGACAAAGACCATGGGGTCTGGAGTCCCACCTGGCGGAGAAGGGGAGAG
 GCATGGAGCTATCCGACCTGATTGTTTTCAATGGGAACTCTACTCCGTGGATGACCGGACGGGGTTCGT
 CTACCAGATCGAAGGCAGCAAAGCCGTGCCCTGGGTGATTCTGTCCGACGGCGACGGCACCGTGGAGAAA
 GGCTTCAAGGCCGAATGGCTGGCAGTGAAGGACGAGCCTGTACGTGGGCGGCTGGGCAAGGAGTGGA
 CGACCACTACGGGTGATGTGGTGAACGAGAACCCGGAGTGGGTGAAGGTGGTGGCTACAAGGCAGCGT
 GGACCACGAGAAGTGGGTGTCCTCAACTACAACGCCCTGCCGGCTGCTGCCGGCATCCAGCCGCCAGGCTAC
 CTCATCCATGAGTCTGCCTGCTGGAGTGACAGCTGACGCGCTGGTTCTTCTGCCGCGCCGCGCCAGCC
 AGGAGCGCTACAGCGAGAAGGACGACGAGCGCAAGGGCGCCAACCTGCTGCTGAGCGCTCCCTGACTT
 CGGCGACATCGCTGTGAGCCACGTCGGGGCGGTGGTCCCCACTCACGGTCTCTGTCCTTCAAGTTCATC
 CCCAACCCGACGACAGATCATTGTGGCCCTCAAATCCGAGGAGGACAGCGGCAGAGTCGCTCCTACA
 TCATGGCCTTACGCTGGACGGCGCTTCTGTTGCCGGAGACCAAGATCGGAAGCGTGAATACGAAGG
 CATCGAGTTCATT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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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_001159772.2
RefSeq Size:	3489 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]