

Product datasheet for **RC228373**

GTDC1 (NM_001164629) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	GTDC1
Synonyms:	Hmat-Xa; mat-Xa
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence: >RC228373 representing NM_001164629
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGAGTATCCTCATCATTGAAGCATTCTATGGAGGCTCCCATAAACAGCTGGTGGATCTTCTCAAGAAG
 AGTTAGGAGACTGTGTCGTTTATACCTTCTCTGCAAAGAAATGGCATTGGAGAGCCCGGACATCTGCTTT
 ATATTTCTCTCAGACCATTCCCATCAGTGAGCATTACAGGACCCTCTTTGCAAGTTCAGTGCTTAACCTG
 ACCGAACTGGCTGCCCTTCGGCCTGACCTTGGGAACTGAAAAAGATTCTGTATTTTACGAGAACCAGT
 TGATATATCCTGTCAAGAAATGTCAGGAGAGGGATTCCAATATGGATACAACCAAAATCTTTTCATGCCT
 GGTGGCTGATGTGGTTGTATTCAACTCAGTTTTTAATATGGAATCATTTCTCACTTCCATGGGAAAATTT
 ATGAAGCTGATTCTGATCACAGACCAAGGATCTGAAAGCATCATCAGACCAAGTGCCAAGTTATTT
 ACTTTCCCATCAGTTTCTGATGTGAGCAGATTATGCCAAGCACAAAACAACCCATTTAAAGAAGAT
 GCTCGGCTTAAAGGAAATGGCGGTGCGGTTCTGTCCATGGCCTTCTTTTCAGCCAGAGCAGAGAGAT
 TCAGAGGATTTATTGAAGAATTTAATTCAGAGTGTGATACACACTGTGGCCTTGATACTGCACGACAAG
 AATATTTGGTAACTCATTAAAGACAGGAATCAGACTTGAAAAATCCACCTCGTCAGATAATTCAAGCTC
 TCATCATGGTGAAATAAACAATACTGACTGTTGATCCCTGTGACATTTGGTGGAGTTGATAATCAG
 CAAAGACTGCTACACATTGTCTGGCCTCACAGGTGGGAGCATGATAAGATCCAGAAAGCTTTTTTAAGG
 TATTAATGCATCTTAAAGACTTAGGACTCAATTTCCACGTGTCTGTACTTGGAGAAACCTTCACAGATGT
 CCCAGATATTTTTTTCAGAGGCCAAAAAGGCATTGGGATCTTCTGTCTTACACTGGGGCTACTTACCCAGC
 AAAGATGACTATTTCCAAGTACTGTGATGGCTGATGTTGTCATCTCAACAGCTAAGCATGAATCTTTG
 GAGTGGCAATGTTGGAAGCTGTGACTGTGGGTGTTACCCACTTTGTCTAAAGATTTGGTTTATCCCGA
 AATATTTCCAGCTGAATATCTGTATTCTACACCTGAACAGCTTTCAAAAAGGCTCCAGAAATTTCTGCAAG
 AGACCAGATATTATAAGAAAACATCTCTATAAGGGTGAAATCGCTCCGTTTCTTGGGCAGCCCTACATG
 GTAATTTCAGGTCTCTGCTTACAACAGAACCTAGGGAAGATTTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC228373 representing NM_001164629
 Red=Cloning site Green=Tags(s)

MSILIIIEAFYGGSHKQLVDLLQEELGDCVVYTLPAKKWHWRARTSALYFSQTIPISEHYRTLFASSVLNL
 TELAALRPDLGKLKKILYFHENQLIYPVKKCQERDFQYGYNQILSCLVADVVFNSVFNMESFLTSMGKF
 MKLIPDHRPKDLESIIRPKCQVIYFPIRFPDVSFRFMPKHKTTHLKKMLGLKNGGAVLSMALPFQPEQRD
 SEDLLKNFNSECDTHCGLDTRQEYLGNSLRQESDLKKSTSSDNSSSHGENKQNLTVDPDILGGVDNQ
 QRLLHIVWPHRWEHDKDPESFFKVLMLKDLGLNFHVSVLGETFTDVPDIFSEAKKALGSSVLHWGYLPS
 KDDYFQVLCMADVVISAKHEFFGVAMLEAVYCGCYPLCPKDLVYPEIFPAEYLYSTPEQLSKRLQNFK
 RPDIIIRKHLKGEIAPFSWAALHGKFRSLLTTEPREDL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8061_c12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001164629

ORF Size: 1374 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.

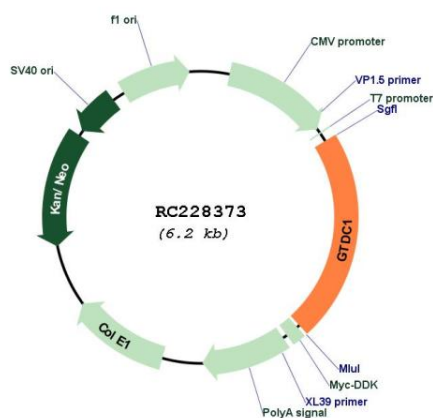
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001164629.5](#)

RefSeq Size: 2692 bp

RefSeq ORF: 1377 bp
Locus ID: 79712
UniProt ID: [Q4AE62](#)
Cytogenetics: 2q22.3
MW: 52.6 kDa

Product images:



Circular map for RC228373