

Product datasheet for **RC205001**

GLT8D2 (NM_031302) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GLT8D2 (NM_031302) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GLT8D2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC205001 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTCTGTACGAAAAATTAATCAGGTGCTGCTGTTCTTCTGATCGTGACCCTCTGTGTATTCTGT
ATAAGAAAGTTTCATAAGGGGACTGTGCCAAGAATGACGCAGATGATGAATCCGAGACTCCTGAAGAACT
GGAAGAAGAGATTCCTGTGGTGATTGTGCTGCAGCAGGAGGATGGGTGCCACTATGGCTGCCATCAAT
AGCATCTACAGCAACACTGACGCCAACATCTTGTCTATGTAGTGGGACTCCGGAATACTCTGACTCGAA
TACGAAAATGGATTGAACATTCGAACTGAGAGAAATAAACTTTAAATCGTGAATTCACCCGATGGT
CCTCAAAGGGAAGATCAGACCAGACTCATCGAGGCTGAATTGCTCCAGCCTCTGAACCTTTGTTCGATTT
TATCTCCCTCTACTTATCCACCAACACGAGAAAGTCATCTATTTGGACGATGATGAATTGTACAAGGTG
ATATCCAAGAACTGTATGACACCACCTTGGCCCTGGGCCACGCGCGGCTTTCTCAGATGACTGCGATTT
GCCCTCTGCTCAGGACATAAACAGACTCGTGGGACTTCAGAACACATATATGGGCTATCTGGACTACCGG
AAGAAGGCCATCAAGGACCTTGGCATCAGCCCCAGCACCTGCTCTTCAATCCTGGTGTGATTGTTGCCA
ACATGACAGAATGGAAGCACCAGCGCATCACCAAGCAATTGGAGAAATGGATGCAAAGAATGTGGAGGA
AAACCTCTATAGCAGCTCCCTGGGAGGAGGGTGGCCACCTCCCCAATGCTGATTGTGTTTCATGGGAAA
TATTCCACAATTAACCCCTGTGGCACATAAGGCACCTGGGCTGGAATCCAGATGCCAGATATTCGGAGC
ATTTTCTGCAGGAAGCTAAATTACTCCACTGGAATGGAAGACATAAACCTTGGGACTTCCCTAGTGTTC
CAACGACTTATGGGAAAGCTGTTTGTCTGACCCTGCAGGGATATTTAACTCAATCACCATAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC205001 protein sequence
Red=Cloning site Green=Tags(s)

MALLRKINQVLLFLLIVILCVILYKVKHKGTVPKNDADDESETPEEEEEIPVVICAAAGRMGATMAAIN
SIYSNTDANILFYVVLGRNTLTRIRKWIEHSKLREINFKIVEFNPVVLKGGKIRPDSSRPPELLQPLNFVRF
YLPILLIHQHEKVIYLLDDDIVQGDIIQELYDITTLALGHAAAFSDDCDLPQAQDINRLVGLQNTYMGYLDYR
KKAIKDLGISPTCSFNPGBVIANMTTEWKHQRITKLEKWMQKNVEENLYSSLLGGGVATSPMLIVFHGK
YSTINPLWHIRHLGNWPDARYSEHFLQEAKLHLHNGRHKPWDFPSVHNDLWSEWFPDPDPAIGFLKNHHS

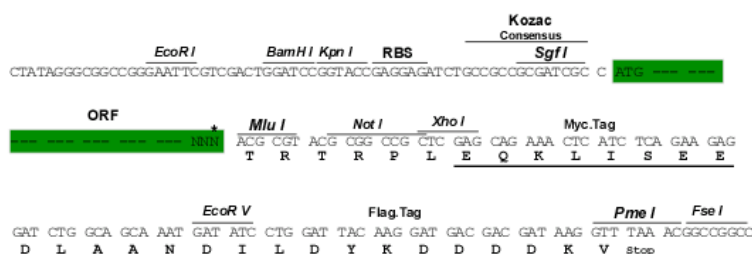
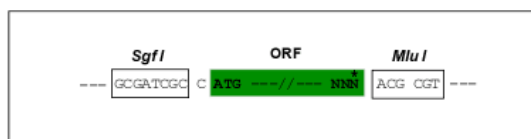
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6426_a07.zip

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM 031302

ORF Size: 1047 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_031302.4](#), [NP_112592.1](#)

RefSeq Size: 1906 bp

RefSeq ORF: 1050 bp

Locus ID: 83468

UniProt ID: [Q9H1C3](#)

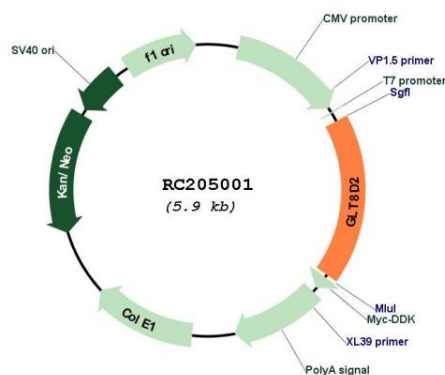
Cytogenetics: 12q23.3

Domains: Glyco_transf_8

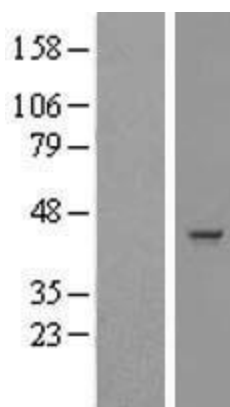
Protein Families: Transmembrane

MW: 40 kDa

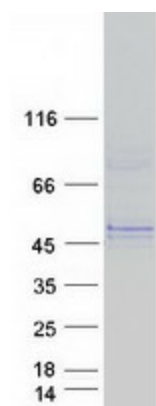
Product images:



Circular map for RC205001



Western blot validation of overexpression lysate (Cat# [LY410552]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205001 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified GLT8D2 protein (Cat# [TP305001]). The protein was produced from HEK293T cells transfected with GLT8D2 cDNA clone (Cat# RC205001) using MegaTran 2.0 (Cat# [TT210002]).