

## Product datasheet for **RG214761**

### GLT6D1 (NM\_182974) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GLT6D1 (NM_182974) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GLT6D1
Synonyms:	GLTDC1; GT6M7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG214761 representing NM_182974 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAATTCTAAAAGAAATGCTGTTATTGGTTTTATTGCTTTTTCACTGATGTTGGTTGAGCGTTATTTCA  
GGAATCACCAAGTAGAAGAACTTCGGCTCTCAGACTGGTTTCATCCTAGAAAACGCCCTGATGTTATAAC  
GAAAACAGACTGGCTCGCTCCTGTCTATGGGAAGGGACTTTCGACAGGGGGTCTGGAAAAACATTAC  
AGAAGGCGGAATATCACTGTGGCCTGGCCGTCTTTGCTACTGGCAGGTTTGCAGAGGAGTACCTGAGGC  
CGTTTCTACACTCCGAAATAAGCACTTCATGACAGGCTACCGAGTGATCTTCTACATCATGGTGGACGC  
CTTCTTCAAGCTGCCTGACATAGAGCCAGTCTCTTTCGAACGTTCAAAGCATTTAAAGTGGGCACCGAG  
AGGTGGTGGCTCGATGGCCCCCTGGTGCATGTGAAGAGCCTGGGTGAACCATCGCCAGTCACATCCAGG  
ACGAGGTGGACTTCTCTTTCAGCATGGCTGCCAACCGGTCTTCCAGAATGAGTTCGGGGTGGAGACCTT  
GGGCCCGTTGGTGGCCAGCTCCACGCCTGGTGGTATTTTCAGAAAACCAAGAAGTCCCTTATGAGAGG  
AGGCCGACCTCAGCAGCTTGCATCCCGTTTGGACAGGGAGATTTCTATTATGGCAACTTGATGGTTGGTG  
GCACACCCATAATATTTAGACTTCATCAAAGAATATCTGAACGGAGTTATTCATGACATCAAAAATGG  
ACTCAATAGCACTTATGAAAAGCACCTTAACAAATATTTTTACCTCAATAAACCCACTAAGCTGTTATCA  
CCAGCATACAGCTGGGATCTTGCATTTTCTCCTCCTCCACAGATCCAATACGTCAAGGTCGCACATGATT  
CCAGAGGAAATTA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG214761 representing NM\_182974  
 Red=Cloning site Green=Tags(s)

MNSKRMLLLVLFASFSLMLVERYFRNHQVEELRLSDWFHPRKRPDVIKTDLAPVLWEGTFDRRVLEKHY  
 RRRNITVGLAVFATGRFAEEYLRPFLHSANKHFMTGYRVIFYIMVDAFFKLPDIEPSPLRTFKAFKVGTE  
 RWWLDGPLVHVKSLGEHIASHIQDEVDFLF SMAANQVFNQNEFVETLGPLVAQLHAWWYFRNTKNFPYER  
 RPTSAACIPFGQDFYYGNLMVGGTPHNILDFIKEYLNGVIHDIKNGLNSTYEKHLNKYFYLKPKTKLLS  
 PAYSWDLAFSPPPQIQYVKVAHDSQRKL

TRTRPLE - GFP Tag - V

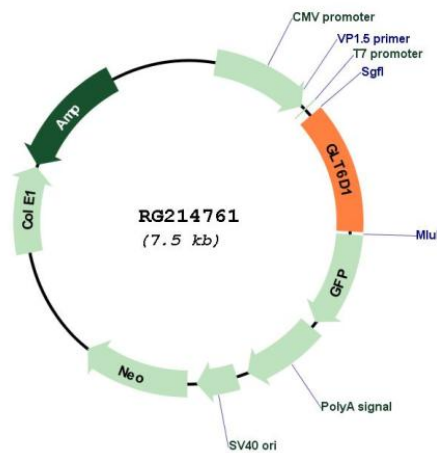
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_182974

**ORF Size:** 924 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_182974.1</a> , <a href="#">NP_892019.1</a>
<b>RefSeq Size:</b>	1526 bp
<b>RefSeq ORF:</b>	831 bp
<b>Locus ID:</b>	360203
<b>UniProt ID:</b>	<a href="#">Q7Z4J2</a>
<b>Cytogenetics:</b>	9q34.3
<b>Gene Summary:</b>	The GT6 glycosyltransferases gene family, which includes the ABO blood group (ABO; MIM 110300) and GLT6D1, shows a complex evolution pattern, with multiple events of gain and loss in different mammal species. In humans, the ABO gene is considered the sole functional member, although the O allele is null and is fixed in certain populations (summary by Casals et al. (2009) [PubMed 19218399]).[supplied by OMIM, Jan 2011]