

## Product datasheet for RN216548

### Poglut1 (NM\_001100652) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Poglut1 (NM_001100652) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Poglut1
Synonyms:	Ktelc1; RGD1306248
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN216548 representing NM_001100652 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGCGGCTGTCGGGCTGTAGGCTTAGGCCATGGATGCTGTTATTGCTCCTGTTCCCGGTGCAGGGCC  
GCCAGAAGGACTCAGGCTCAAAATGAAAGTATTTATTGACCAAATTAACAGGGCTTTGGAGAATTATGA  
ACCATGTTCAAGTCAAACTGCAGCTGCTATCACGGGTCATAGAAGAGGATCTGACTCCTTTCCGAGGT  
GGAATCTCCAGGAAGATGATGGCCGAGGTGTCAGACGGAGGTTAGGAACCCACTACCAGATCATTAAAGC  
ACAGATTATTCAGGAAGACGACTGCATGTTCCCTCCAGGTGTAGTGGTGTAGAACAACCTTTATTTTGG  
AGTGATCCGTCGCTCCCTGACATGGAAATGGTAATCAATGTCCGAGACTATCCTCAGGTTCTAAGTGG  
ATGGAGCCTACCATCCCTGTCTTCTCCTCAGTAAGACATCGGAGTACCATGATATAATGTACCCCTGCGT  
GGACATTTTGGGAAGGGGTCCTGCTGTGTGGCCACTTTATCCTACAGGTCTTGGGCGGTGGGACCTCTT  
CAGAGAAGATCTGTTAAGGTCAGCAGCACAATGGCCATGGGAAAAGAAGAATTCTACAGCATATTTCCGG  
GGATCAAGGACAAGCCCTGAAAGAGATCCTCTCATTCTTCTCTCGGAAAAATCCAAAACCTCGTTGATG  
CAGAATACACCAAAAACCAGGCCTGGAAGTCTATGAAAGATACTTTGGGAAAGCCAGCCGCTAAGGATGT  
GCATCTTATAGATCACTGCAAAATACAAATACCTGTTAATTTCCGAGGTGTAGCTGCAAGTTTCCGGTTC  
AAACACCTTTCTGTGTGGCTCGTGGTCTTCCATGTTGGTGATGAGTGGGTTGAGTCTCTACCCAC  
AGCTAAAGCCCTGGGTTCACTACATCCCAGTCAAACAGACCTCTCCGATGTCCAGGAGCTGTTGCAGTT  
TGTGAAAGCAAATGATGATCTTGCTCAGGAAATGCTAAAAGGGGAAAGCCAGTTCATCATAAACCATTTG  
CAGATGGATGACATCACTTGTTACTGGGAGAACCTCTTGACTGAATTTCCAAATTCCTGTCCTATAATG  
TAACAAGAAGAAAAGATTATTATCAGATCATTCCAGACGTTTAAAACTGAACTG**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_001100652
<b>Insert Size:</b>	1179 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<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>	<u><a href="#">NM_001100652.1</a></u> , <u><a href="#">NP_001094122.1</a></u>
<b>RefSeq Size:</b>	2935 bp
<b>RefSeq ORF:</b>	1179 bp
<b>Locus ID:</b>	288091
<b>UniProt ID:</b>	<u><a href="#">G3V9D0</a></u>
<b>Cytogenetics:</b>	11q21
<b>Gene Summary:</b>	Dual specificity glycosyltransferase that catalyzes the transfer of glucose and xylose from UDP-glucose and UDP-xylose, respectively, to a serine residue found in the consensus sequence of C-X-S-X-P-C. Specifically targets extracellular EGF repeats of protein such as CRB2, F7, F9 and NOTCH2 (By similarity). Acts as a positive regulator of Notch signaling by mediating O-glycosylation of Notch, leading to regulate muscle development (By similarity). Notch glucosylation does not affect Notch ligand binding (By similarity). Required during early development to promote gastrulation: acts by mediating O-glycosylation of CRB2, which is required for CRB2 localization to the cell membrane (By similarity).[UniProtKB/Swiss-Prot Function]