

Product datasheet for **RG206171**

POGLUT3 (NM_153705) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	POGLUT3 (NM_153705) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	POGLUT3
Synonyms:	KDELC2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG206171 representing NM_153705
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGC**C

ATGCGCCGCTCCCGCGGCCCTGCTGCTGCAGCTGCGCCTCGCCCTGCTGGTGGCCGCGGGGCCCGG
 AGGTGCTGGTCAGCGCGCCGCGGAGCCTGGTGTGGGGGCCCGGGCTGCAGCGCGCCGTCGTCTGCCGGT
 CCGCTATTTCTACCTGCAGGCGGTCAACTCGGAGGGCCAGAACCCTCACTCGCTCTCCCGCAGGTGAAACA
 CCATTCAAAGTCGTAGTCAAATCTCTTTACCTAAAGAGTTGGTCCGGATACATGTCCTAAACCTTTGG
 ACAGGAATGATGGAACATTTTGGATGAGATATAGGATGTATGAACTGTCGATGAAGGCCTGAAGATAGA
 GGTCTTTATGGTATGAACATGTGGCTCAGTCTCCCTATATTTGAAAGGACAGTGTACCATGAGTAC
 TGTGAGTGTCCGAAGATCCTCAGGCTGGCAGAAGACTCTTCTGTCCAACCAAGGAACACAGATTG
 CAAAAGATTTGCTTCTTTCCAGCATCAATCTCCAGCAATGCTAAAAGAAGTCCCCAAAGGTTTGG
 GGATGAGAGAGGTGCCATTGTTTACACGATTCTCAATAACCATGTTTACCGAGATCTTTAGGGAAA
 TACACAGACTTCAAGATGTTCTCTGATGAGATTTGTTATCATTGACAAGAAAGGTCCTTCTCCAGATT
 TAGAATTTTATGTTAATCTTGGAGATTGGCCCTTGGAGCATCGAAAAGTCAATGGAACCCCTAGCCCCAT
 ACCTATCATTTTATGGTGTGGCTCTCTGGATTCAAGAGATGTTGTCTTCCAACGTATGACATCACCCAC
 TCCATGCTTGAAGCCATGCGGGGTGTTACAAATGATCTCTCTATTACGGGAAATACAGGGCCTTCTCT
 GGATCAATAAAACAGAGAGAGCTTTCTCAGAGGTAGAGACAGCTAGAGGAGAGGCTCCAGTTGGTACA
 GCTGTCCAAAGAAAATCCTCAGTACTAGATGCAGGAATTACAGGATATTTCTTTTCCAAGAGAAAAGAA
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 GCCATATTATGAACATTCTACATGGCACTAGAACCTTGAAGCATTATGTTCCAATTAAGAAAATCTG
 AGTGATTTATTAGAGAAAGTTAAATGGGCTAAGGAAAATGATGAAGAAGCAAGAAGATTGCAAAAAGAG
 GACAGTTGATGGCTAGGGACCTACTACAGCCACACAGGCTTTACTGCTACTATTACCAAGTACTGCAGAA
 ATATGCCGAGCGCAGTCCAGCAAACCCGAAGTACGTGATGGAATGGAATTGTTCTCTCAGCCAGAAGAT
 AGCACAGCCATCTGCCAGTGCCACAGGAAAAAGCCTTCAAGAGAAGAAGTT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

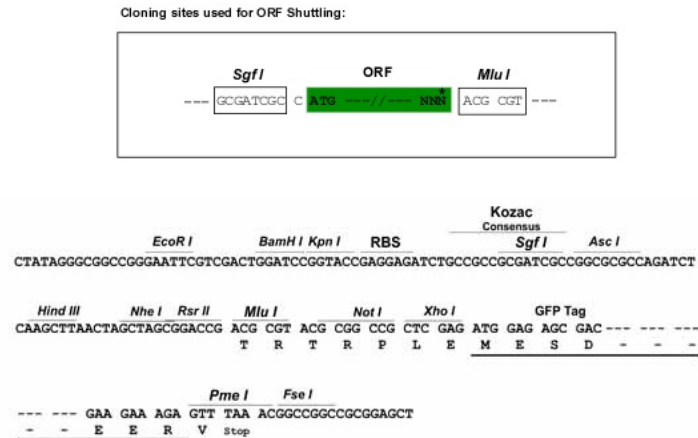
>RG206171 representing NM_153705
 Red=Cloning site Green=Tags(s)

MRRLPRALLQLRLALLVAAGAPEVLVSAPRSLVWGPGLQAAVLPVRYFYLQAVNSEGQNLTRSPAGET
 PFKVVVKSLSPELVRIHVPKPLDRNDGTFLMRYRMYETVDEGLKIEVL YGDEHVAQSPYILKGPVYHEY
 CECPEDPQAWQKTLSCPTKEPQIAKDFASFPSINLQQMLKEVPKRFGDERGAIVHYTILNNHVYRRSLGK
 YTDFKMFSDIILLSLTRKVLLPDLEFYVNLGDWPLEHRKVNGTPSPIPIISWCGSLDSRDVVLPTDYDITH
 SMLEAMRGVTNDLLSIQNTGPSWINKTERAFFRGRDSLEERLQLVQLSKENPQLLDAGITGYFFFEKE
 KELGKAKLMGFFDFKYKYQVNVDTVAAYRYPYMLGDSLVLKQDSPYYEHFYMALEPWKHVYPIKRN
 LDLLKVKWAKENDEEAKKIAKEGQLMARDLLQPHRLCYYYYQVLQKYAERQSSKPEVRDGMELVPQPED
 STAICQCHRKKPSREEL

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN:	NM_153705
ORF Size:	1521 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_153705.2 , NP_714916.2
RefSeq Size:	4269 bp
RefSeq ORF:	1524 bp
Locus ID:	143888

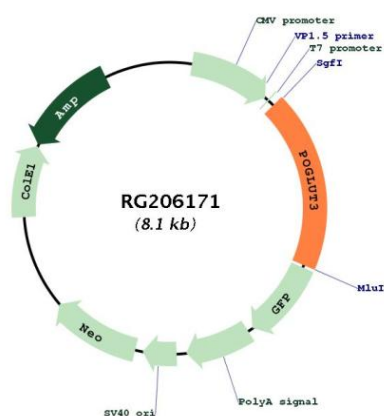
UniProt ID: [Q7Z4H8](#)

Cytogenetics: 11q22.3

Domains: CAP10

Gene Summary: Protein glucosyltransferase that catalyzes the transfer of glucose from UDP-glucose to a serine residue within the consensus sequence peptide C-X-N-T-X-G-S-F-X-C (PubMed:30127001). Can also catalyze the transfer of xylose from UDP-xylose but less efficiently (PubMed:30127001). Specifically targets extracellular EGF repeats of proteins such as NOTCH1 and NOTCH3 (PubMed:30127001). May regulate the transport of NOTCH1 and NOTCH3 to the plasma membrane and thereby the Notch signaling pathway (PubMed:30127001).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG206171