

Product datasheet for **SC317854**

POGLUT3 (NM_153705) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	POGLUT3 (NM_153705) Human Untagged Clone
Tag:	Tag Free
Symbol:	POGLUT3
Synonyms:	KDELC2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC317854 representing NM_153705.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCGCCGCTCCCGCGGGCCCTGCTGCTGCAGCTGCGCCTCGCCTGCTGGTGGCCGCGGGGGCCCCG
GAGGTGCTGGTCAGCGCGCCGCGAGCCTGGTGTGGGGGCCGGGCTGCAGGCGGCCGTCGTCCTGCCG
GTCCGCTATTTCTACCTGCAGGCGGTCAACTCGGAGGGCCAGAACCCTCACTCGCTCTCCCGCAGGTGAA
ACACCATTCAAAGTCGTAGTCAAATCTCTTCCACTAAAGAGTTGGTCCGGATACATGTCCTAAACCT
TTGGACAGGAATGATGGAACATTTTGTGATGAGATATAGGATGTATGAACTGTGATGAAGGCTGAAG
ATAGAGGTCTTTATGGTATGAACATGTGGCTCAGTCTCCCTATATTTTGAAGGACAGTGTACCAT
GAGTACTGTGAGTGTCCGAAGATCCTCAGGCCTGGCAGAAGACTCTTTCTGTCCAACCAAGGAACCA
CAGATTGCAAAAGATTTTGCTTCTTTCCAGCATCAATCTCCAGCAATGCTAAAGAAGTCCCCAAA
AGGTTTGGGGATGAGAGAGGTGCCATTGTCATTACAGATTCTCAATAACCATGTTTACCGGAGATCT
TTAGGGAATACACAGACTTCAAGATGTTCTCTGATGAGATTTTGTATCATTGACAAGAAAGTCTCT
CTCCAGATTTAGAAATTTATGTTAATCTTGAGATTGGCCCTTGAGCATCGAAAAGTCAATGGAACC
CCTAGCCCATACCTATCATTTATGGTGTGGCTCTCTGATTCAAGAGATGTTGTCTTCCAACGTAT
GACATACCCACTCCATGCTTGAAGCCATGCGGGGTGTTACAAATGATCTCTCTCTATTAGGGAAAT
ACAGGGCCTTCTGGATCAATAAAACAGAGAGAGCTTTCTTCAAGGTAGAGACGCCGAGAGGAGAGG
CTCCAGTTGGTACAGCTGTCAAAGAAAATCCTCAGCTACTAGATGCAGGAATTACAGGATATTTCTTT
TTCCAAGAGAAAAGGAGCTTGGAAAAGCCAGTTGATGGGTTTCTTTGATTTCTTTAAGTACAAG
TATCAAGTAAATGTGGATGGGACCGTGGCTGCTTACAGATATCCATATCTCATGCTGGGCGACAGCTG
GTTTTAAAGCAGGACTCGCCATATTATGAACATTTCTACATGGCACTAGAACCTTGAAGCATTATGTT
CCAATTAAGAAATCTGAGTGATTTATTAGAGAAAGTTAAATGGGCTAAGGAAAATGATGAAGAAGCC
AAGAAGATTGCAAAAGAGGACAGTTGATGGCTAGGGACCTACTACAGCCACACAGGCTTTACTGTAC
TATTACCAAGTACTGCAGAAATATGCCGAGCGCCAGTCCAGCAAAACCGAAGTACGTGATGGAATGGAA
CTTGTTCTCAGCCAGAAGATAGCACAGCCATCTGCCAGTGCCACAGGAAAAAGCCTTCAAGAGAAGAA
CTTTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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Restriction Sites: SgfI-MluI

ACCN: NM_153705

Insert Size: 1524 bp

OTI Disclaimer: 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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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.

RefSeq: [NM_153705.4](#)

RefSeq Size: 4311 bp

RefSeq ORF: 1524 bp

Locus ID: 143888

UniProt ID: [Q7Z4H8](#)

Cytogenetics: 11q22.3

Domains: CAP10

MW: 58.6 kDa

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]