

Product datasheet for **SC100510**

POGLUT3 (NM_153705) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	POGLUT3
Synonyms:	KDELC2
Mammalian Cell	None
Selection:	
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_153705, the custom clone sequence may differ by one or more nucleotides

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ATGCGCCGCTCCCGGGGCCCTGCTGCTGCAGCTGCGCCTCGCCCTGCTGGTGGCCGCGGGGGCCCCGG
AGGTGCTGGTCAGCGCGCCGCGAGCCTGGTGTGGGGCCCCGGCTGCAGGCGGCCGTCGCTCTGCCGT
CCGCTATTTCTACCTGCAGGCGGTCAACTCGGAGGGCCAGAACCTCACTCGCTCTCCCGCAGGTGAAACA
CCATTCAAAGTCGTAGTCAAATCTCTTTCACCTAAAGAGTTGGTCCGGATACATGTCCCTAAACCTTTGG
ACAGGAATGATGGAACATTTTTGATGAGATATAGGATGTATGAACTGTCGATGAAGGCCTGAAGATAGA
GGTCCTTTATGGTGATGAACATGTGGCTCAGTCTCCCTATATTTTAAAAGGACCAGTGTACCATGAGTAC
TGTGAGTGTCCGGAAGATCCTCAGGCCTGGCAGAAGACTCTTTCTGTCCAACCAAGGAACACAGATTG
CAAAAGATTTTGCTTCTTTCCAGCATCAATCTCCAGCAAATGCTAAAAGAAGTCCCCAAAAGTTTGG
GGATGAGAGAGGTGCCATTGTTCAATACACGATTCTCAATAACCATGTTTACCGGAGATCTTAGGGAAA
TACACAGACTTCAAGATGTTCTCTGATGAGATTTGTTATCATTGACAAGAAAGTCTTCTCCAGATT
TAGAATTTTATGTTAATCTTGAGATTGGCCCTTGGAGCATCGAAAAGTCAATGGAACCCCTAGCCCCAT
ACCTATCATTTATGGTGTGGCTCTCTGGATTCAAGAGATGTTGTCCTTCCAACGTATGACATCACCCAC
TCCATGCTTGAAGCCATGCGGGGTGTACAAATGATCTCTCTCTATTCAGGGAATACAGGGCCTTCTCT
GGATCAATAAAACAGAGAGAGCTTTCTCAGAGGTAGAGACAGCCGAGAGGAGAGGCTCCAGTTGGTACA
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ATGGGACCGTGGCTGCTACAGATATCCATATCTCATGCTGGGCGACAGTCTGGTTTTAAAGCAGGACTC
GCCATATTATGAACATTTCTACATGGCACTAGAACCTTGAAGCATTATGTTCCAATTAAGAAATCTG
AGTGATTTATTAGAGAAAGTTAAATGGGCTAAGGAAATGATGAAGAAGCCAAGAAGATTGCAAAAGAAG
GACAGTTGATGGCTAGGACCTACTACAGCCACACAGGCTTTACTGCTACTATTACCAAGTACTGCAGAA
ATATGCCGAGCGCCAGTCCAGCAAACCCGAAGTACGTGATGGAATGGAACCTGTTCTCAGCCAGAAGAT
AGCACAGCCATCTGCCAGTGCCACAGGAAAAGCCTTCAAGAGAAGAACTTTGA

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5' Read Nucleotide
Sequence:

>OriGene 5' read for NM_153705 unedited
 NGGGGTCACAATTGTATACGACTCACTATAGGCGGCCGCAATTCGCACCAGGTGCTGGT
 CAGCGCGCCGCGGAGCCTGGTGTGGGGCCCGGGCTGCAGGCGCCGTCGTCTGCCGGT
 CCGCTATTTCTACCTGCAGGCGGTCAACTCGGAGGGCCAGAACCTCACTCGCTCTCCGCG
 AGGTGAAACACCATTCAAAGTCGTAGTCAAATCTTTTACCTAAAGAGTTGGTCCGGAT
 ACATGTCCCTAAACCTTTGGACAGGAATGATGGAACATTTTGTAGAGATATAGGATGTA
 TGAAACTGTCGATGAAGGCCTGAAGATAGAGGTCCTTTATGGTGATGAACATGTGGCTCA
 GTCTCCCTATATTTGAAAGGACCAGTGTACCATGAGTACTGTGAGTGTCCGGAAGATCC
 TCAGGCCTGGCAGAAGACTCTTTCTGTCCAACCAAGGAACACAGATTGCAAAAGATTT
 TGCTTCCTTTCCAGCATCAATCTCCAGCAAAATGCTAAAAGAAGTCCCCAAAAGTTTGG
 GGATGAGAGAGGTGCCATTGTTTACACGATTCTCAATAACCATGTTTACCGGAGATC
 TTTAGGGAAATACACAGACTTCAAGATGTTCTCTGATGAGATTTTGTATCATTGACAAG
 AAAGGTCCTTCTCCAGATTTAGAATTTTATGTTAATCTTGAGATTGGCCTTGGAGCA
 TCGAAAAGTCAATGGAACCCCTAGCCCCATACATATCATTTTATGGTGTGGGCTCTCTGG
 ATTTCAAGAGATGTTGCTTTTCAACGTATGACATACCCACTCCATGCTGAAGCCATGC
 GCGGGTGTTACAAATGATCTCTCTATTTCAGGAAATACAGGGCCTTCTGATCAAT
 AACAGAGAGAGCTN

3' Read Nucleotide
Sequence:

>OriGene 3' read for NM_153705 unedited
 NNNNCGGTACATCTATGNNACCGCGGCCGCAANCTANGATCGAGTTTTTTTTTTTTTTT
 TTTTTTTTTTTTTTTTTTCACTTTTTTATTTAAAAAATTTATTTTATTTAAAGGTAT
 ATATATACATAAGTCCCAAGATATAAAGTTCTAAACATAGATTTAAAAAGAGCAAAATGG
 AAAAAATATAAATATTTGCTGTTCTGTTTATATCTTTTGGGCATTTATGTCTTTTCTA
 AGGTTGGCATTTTTCTTTATTTTGAATTTGATCCATACTTACAGTAAAAAAAATCTAA
 ATATTATAGAAAGTATAAAGCAAAAGTAAGAATTCCTTCACTCCATCTTCTCCTCAA
 ATATTGGGGAATCTCTCCAAACTTTCAACCACATAGATGCATTTTTGTTTTCAAACCA
 AAAAGCCATTAACACTAACTCTTTAAAGGCTGCGGCTGAATTGGCGAGATGAAAAATAT
 GTAAATTAAGGCTGCTGTCTCCCTATAAAATTTTTGAGGGATTCCACCTTTTTTTAAAG
 CACATCCTTCTGTTCCACACACTGAATCTGCCTGGTTTGTCTCAACTTGCTTTTAACTA
 TTAGGCCTGTTTGGCAAAGGCAATATAAATTTTTAAAAATGAAGATGTTTAAATGCCA
 TTAGCCTTTACCACCTGGAATTTGAGGCAAAAGGTATGAGTTAGGCAACCTTTCTTGCC
 ATAATCCCAGTTTGGACAGCCTCAAACACAATGTACAATTTTAAAGCCCAATTTCTTT
 AGGTATGGGGCTCAAGACAGCTTGCTCTTATTTAATACTTGCCTGCTTGGGTTTGCAC
 AAGGATGGGGTATAAAATTTGCCTTGAATACTTGCCATTGATTACAC

Restriction Sites:

NotI-NotI

ACCN:

NM_153705

Insert Size:

4700 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).

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_153705.1 , NP_714916.1
RefSeq Size:	4311 bp
RefSeq ORF:	4311 bp
Locus ID:	143888
UniProt ID:	Q7Z4H8
Cytogenetics:	11q22.3
Domains:	CAPI0
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]