

Product datasheet for **RG203762**

RXYLT1 (NM_014254) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: RXYLT1 (NM_014254) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: RXYLT1
Synonyms: HP10481; MDDGA10; TMEM5
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG203762 representing NM_014254
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCGGCTGACGCGGAAGCGGCTCTGCTCGTTTCTTATCGCCCTGTACTGCCTATTCTCCCTCTACGCTG
 CCTACCACGTCTTCTTCGGGCGCCGCCAGGCGCCGGCCGGTCCCGCGGGGCTCAGGAAGGGGGC
 GGCCCCCGCGGGAGAGACGCGGCCGAGAACAGTCCACTTTGAAAAGTGAAGAATGGAATCCTTGGGAA
 GGAGATGAAAAAATGAGCAACAACACAGATTTAAACTAGCCTTCAAATATTAGATAAATCCACGAAAG
 GAAAAACAGATCTCAGTGTACAAATCTGGGGCAAAGCTGCCATTGGCTTGTATCTCTGGGAGCATATTTT
 TGAAGGCTTACTTGATCCAGCGATGTGACTGCTCAATGGAGAGAAGGAAAGTCAATCGTAGGAAGAACA
 CAGTACAGCTTCACTGGTCCAGCTGTAAATACCAGGGTACTTCTCCGTTGATGTGAATAATGTGGTAC
 TCATTTTAAATGGAAGAGAAAAAGCAAAGATCTTTTATGCCACCCAGTGGTTACTTTATGCACAAAATTT
 AGTGCAAATTCAAAACCTCCAGCATCTTGCTGTTGTTTTGCTCGGAAATGAACATTGTGATAATGAGTGG
 ATAAACCCATTCCAAAAGAAATGGAGGCTTCGTGGAGCTGCTTTTCATAATATATGACAGCCCCTGGA
 TTAATGACGTGGATGTTTTTCAGTGGCCTTTAGGAGTAGCAACATACAGGAATTTTCTGTGGTGGAGGC
 AAGTTGGTCAATGCTGCATGATGAGAGGCCATATTTATGTAATTTCTTAGGAACGATTTATGAAAATTC
 TCCAGACAGGCACTAATGAACATTTTAAAAAAGATGGGAACGATAAGCTTTGTTGGGTTTCAGCAAGAG
 AACACTGGCAGCCTCAGGAAACAAATGAAAGTCTTAAGAATTACCAAGATGCCTTGCTTCAGAGTGATCT
 CACATTGTGCCCGGTTCGAGTAAACACAGAATGCTATCGAATCTATGAGGCTTGCTCCTATGGCTCCATT
 CCTGTGGTGAAGACGTGATGACAGCTGGCAACTGTGGGAATACATCTGTGCACCACGGTCTCCTCTGC
 AGTTACTCAAGTCCATGGGTGCTCCCTTATCTTTATCAAGAAGTGAAGGAACTCCCTGCTGTTTTAGA
 AAAAGAGAAAATATAATTTTACAAGAAAAATGAAAGAAGAAAAATGTTACTTCAGTGGTATCAGCAC
 TTCAAGACAGAGCTTAAATGAAATTTACTAATATTTTAGAAAGCTCATTTTTAATGAATAATAAAAGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >RG203762 representing NM_014254
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MRLTRKRLCSFLIALYCLFSLYAAYHVFFGRRRQAPAGSPRGLRKGAAPARERRRGREQSTLESEEWNPWE
 GDEKNEQQHRFKTSLQILDKSTKGKTDLSVQIWKAAIGLYLWEHIFEGLLDPSDVTAQWREGKSIVGRT
 QYSFITGPAVIGYFSDVDVNNVVLILNGREKAKIFYATQWLLYAQNLVQIQKLQHLAVVLLGNEHCDNEW
 INPFLKRNGGFVELLFIIDYDWPWINDVDVFWPLGVATYRNFVVEASWSMLHDERPYLCNFLTGIYENS
 SRQALMNILKKDGNKLCWVSAREHWQPQETNESLKNYQDALLQSDLTLCPVGVNTECYRIYEACSYGSI
 PVVEDVMTAGNCNTSVHHGAPLQLLKSMPGAPFIFIKNWKELPAVLEKEKTIILQEIERRKMLLQWYQH
 FKTELKMKFTNIESSFLMNNKS

TRTRPLE - GFP Tag - V

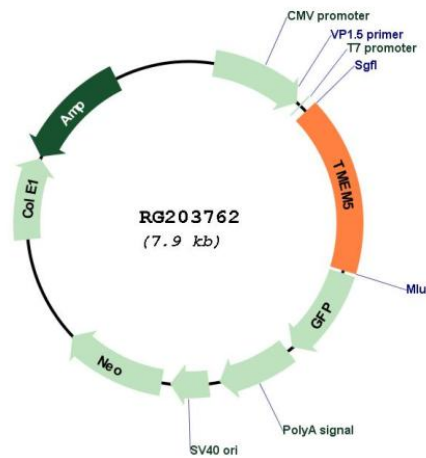
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_014254

ORF Size:	1329 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:	<ol style="list-style-type: none">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_014254.3
RefSeq Size:	1451 bp
RefSeq ORF:	1332 bp
Locus ID:	10329
UniProt ID:	Q9Y2B1
Cytogenetics:	12q14.2
Protein Families:	Transmembrane
Gene Summary:	This gene encodes a type II transmembrane protein that is thought to have glycosyltransferase function. Mutations in this gene result in cobblestone lissencephaly. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, May 2013]