

Product datasheet for **RG232640**

TLL1 (NM_001204760) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TLL1 (NM_001204760) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TLL1
Synonyms:	ASD6; TLL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG232640 representing NM_001204760 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGTTGGGAACGCTTTCCCGAGGATGCTCGTGTGGCTGGTGGCCTCGGGGATTGTTTTCTACGGG
AGCTATGGGTCTGCGCTGGCCTCGATTATGATTACACTTTTGATGGGAACGAAGAGGATAAAACAGAGAC
TATAGATTACAAGGACCCGTGTAAGCCGCTGATTTTGGGGCGATATTGCCTTAGATGATGAAGACTTA
AATATCTTTCAAATAGATAGGACAATTGACCTTACGCAGAACCCTTTGAAAACCTTGGACATACCACAG
GTGGACTTGGAGACCATGCTATGTCAAAGAAGCGAGGGGCCCTACCAACTTATAGACAGGATAAGAAG
AATTGGCTTTGGCTTGGAGCAAAACAACACAGTTAAGGGAAAAGTACCTCTACAATTCTCAGGGCAAAAT
GAGAAAAATCGAGTTCCAGAGCCGCTACATCAAGAACGAAAAGAATATGGCCTGGAGGCGTTATTCCTT
ATGTTATAGGAGGAACTTCACTGGCAGCCAGAGAGCCATGTTCAAGCAGGCCATGAGGCACTGGGAAAA
GCACACATGTGTGACTTTCATAGAAAGAAGTGATGAAGAGAGTTACATTGTATTCACCTATAGGCCCTTG
GGATGCTGCTCCTATGTAGGTCGGCGAGGAAATGGACCTCAGGCAATCTCTATCGGAAGAACTGTGATA
AATTTGGGATTGTTGTTTCATGAATTGGGTCATGTGATAGGCTTTTGGCATGAACACACAAGACCAGATCG
AGATAACCACGTAACATCATAAGAGAAAAATCCAGCCAGGTCAAGAGTACAATTTTCTGAAGATGGAG
CCTGGAGAAGTAACTCACTTGGAGAAAGATGATTTTCGACAGTATCATGCATATGCCAGGAACACCT
TCTCAAGGGGATGTTTTCTGGATACCATTTCTCCCTCCCGTGATGATAATGGCATACGTCCTGCAATTGG
TCAGCGAACCCGCTAAGCAAAGGAGATATCGCACAGGCAAGAAAGCTGTATAGATGTCCAGCATGTGGA
GAAACTCTACAAGAATCCAATGGCAACCTTTCCTCTCCAGGATTTCCCAATGGCTACCCTTCTTACACAC
ACTGCATCTGGAGAGTTTCTGTGACCCAGGGGAGAAGTTGTATTTTCACTCTGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG232640 representing NM_001204760
 Red=Cloning site Green=Tags(s)

MGLGTLSPRMLVWLVASGIVFYGELWVCAGLDYDYTFDGNEDKTETIDYKDPCKAAVFWGDIALDDEDL
 NIFQIDRTIDLTONPFGNLGHTTGGLGDHMSKKRGALYLIDRIRRIGFLEQNNTVKGKVPQLQFSGQN
 EKNRVPRAAATSRTERIWPGGVIPPVIGGNFTGSQRAMFKQAMRHWEKHTCVTFIERSDEESYIVFTYRPC
 GCCSYVGRRRGNPQAISIGKNCDKFGIIVHELGHVIGFWHEHTRPDRDNHVTIIRENIQPQEQEYNFLKME
 PGEVNSLGERYDFDSIMHYARNTFSRGMFLDTILPSRDDNGIRPAIGQRTRLSKGDIAQARKLYRCPACG
 ETLQESNGNLSPPGFPNGYPSYTHCIWRVSVTPGEKVVVSLC

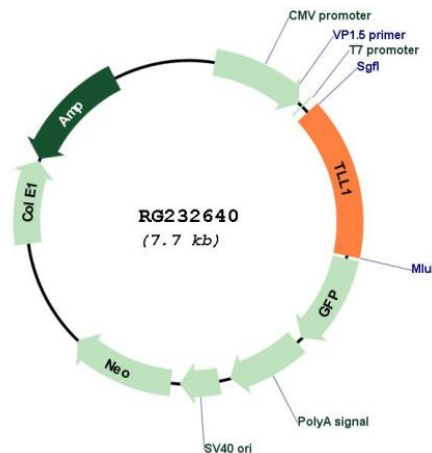
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001204760

ORF Size:	1176 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_001204760.2
RefSeq Size:	2332 bp
RefSeq ORF:	1179 bp
Locus ID:	7092
UniProt ID:	O43897
Cytogenetics:	4q32.3
Protein Families:	Druggable Genome, Protease, Secreted Protein
Gene Summary:	This gene encodes an astacin-like, zinc-dependent, metalloprotease that belongs to the peptidase M12A family. This protease processes procollagen C-propeptides, such as chordin, pro-biglycan and pro-lysyl oxidase. Studies in mice suggest that this gene plays multiple roles in the development of mammalian heart, and is essential for the formation of the interventricular septum. Allelic variants of this gene are associated with atrial septal defect type 6. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2011]