

Protein Sequence: >RG234028 representing NM_001243795
 Red=Cloning site Green=Tags(s)

MTKARLFRLWLVLGVSVMILLIIYVWDSAGAAHFYLHTSFSRPHTGPPLPTPGPDRDREL TADSDVDFEL
 DKFLSAGVKQSDLPRKETEQPPAPGSMEE SVRGYDWSPRDARRSPDQGRQAERRSVLRGFCANSSLAFP
 TKERAFDDIPNSEL SHLIVDDRHGAIYCYVPKVACTNWKRVMI VLSGSL LHRGAPYRDPLRIPREHVHNA
 SAHLTFNKFWRRYGKLSRHLMKVKLKKYTKFLFVRDPFVRLISAFRSKFELENEEFYRKF AVPMLRLYAN
 HTSLPASAREAFRAGLKVSFANFIQYLLDPHTEKLPAPNEHWRQYRRLCHPCQIDYDFVGKLETLDEDA
 QLLQLLQVDRQLRFPPSYRNRTASSWEEDWFAKIPLAWRQQLYKLYEADFVLFVGYPKPENLLRD

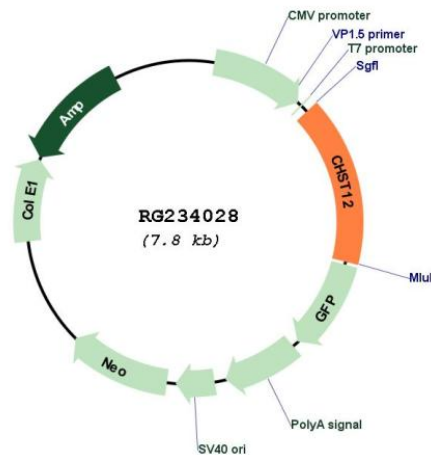
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001243795

ORF Size:	1242 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_001243795.2
RefSeq Size:	2145 bp
RefSeq ORF:	1245 bp
Locus ID:	55501
UniProt ID:	Q9NRB3
Cytogenetics:	7p22.3
Protein Families:	Transmembrane
Protein Pathways:	Chondroitin sulfate biosynthesis, Sulfur metabolism
Gene Summary:	The protein encoded by this gene belongs to the sulfotransferase 2 family. It is localized to the golgi membrane, and catalyzes the transfer of sulfate to position 4 of the N-acetylgalactosamine (GalNAc) residue of chondroitin and desulfated dermatan sulfate. Chondroitin sulfate constitutes the predominant proteoglycan present in cartilage, and is distributed on the surfaces of many cells and extracellular matrices. Alternatively spliced transcript variants differing only in their 5' UTRs have been found for this gene. [provided by RefSeq, Aug 2011]