



**Protein Sequence:** >RG202514 representing NM\_018641  
 Red=Cloning site Green=Tags(s)

MTKARLFRLWLVLGSVFMILLIIIVYWDSAGAAHFYLHTSFSRPHTGPPLPTPGPDRDREL TADSDVDEFL  
 DKFLSAGVKQSDLPRKETEOPAPGSMEE SVRGYDWSPRDARRSPDQGRQAERRSVLRGFCANSSLAFP  
 TKERAFDDIPNSEL SHLIVDDRHGAIYCYVPKVACTNWKRVMI VLSGSL LHRGAPYRDPLRIPREHVHNA  
 SAHLTFNKFWRRYGKLSRHLMKVKLKKYTKFLFVRDPFVRLISAFRSKFELENEEFYRKF AVPMLRLYAN  
 HTSLPASAREAFRAGLKVSFANFIQYLLDPHTEKLPFNEHWRQVYRLCHPCQIDYDFVGKLETLDDEAA  
 QLLQLLQVDRQLRFPPSYRNRTASSWEEDWFAKIPLAWRQQLYKLYEADFVLFVGYPKPENLLRD

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_018641

**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:**

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\\_018641.5](#)

**RefSeq Size:** 2093 bp

**RefSeq ORF:** 1245 bp

**Locus ID:** 55501

**UniProt ID:** [Q9NRB3](#)

**Cytogenetics:** 7p22.3

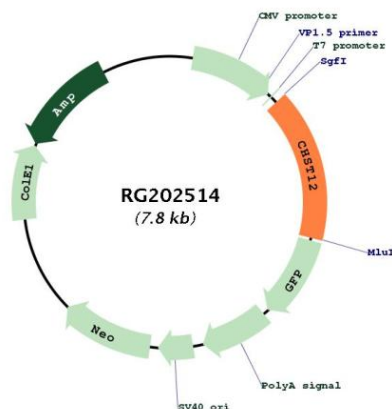
**Domains:** Sulfotransfer2

**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]

### Product images:



Circular map for RG202514