

Protein Sequence: >RC234027 protein sequence
 Red=Cloning site Green=Tags(s)

MTKARLFRLWLVLGSVFMILLIIIVYWDSAGAAHFYLHTSFSRPHTGPPLPTPGPDRDRELTADSDVDFL
 DKFLSAGVKQSDLPRKETEOPPAPGSMEE SVRGYDWSPRDARRSPDQGRQAERRSVLRGFCANSSLAFF
 TKERAFDDIPNSEL SHLIVDDRHGAIYCYVPKVACTNWKRVMI VLSGSL LHRGAPYRDPLRIPREHVHNA
 SAHLTFNKFWRRY GKL SRHLMKVKLKYYTKFLFVRDPFVRLISAFRSKFELENEEFYRKFAVPMLRLYAN
 HTSLPASAREAFRAGLKV SFANFIQYLLDPHTEK LAPFNEHWRQVYRLCHPCQIDYDFVGKLETLEDAA
 QLLQLLQVDRQLRFPPSYRNRTASSWEEDWFAKIPLAWRQQLYKLYEADFVLF GYPKPENLLRD

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6381_c05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001243794

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_001243794.2](#)

RefSeq Size: 2131 bp

RefSeq ORF: 1245 bp

Locus ID: 55501

UniProt ID: [Q9NRB3](#)

Cytogenetics: 7p22.3

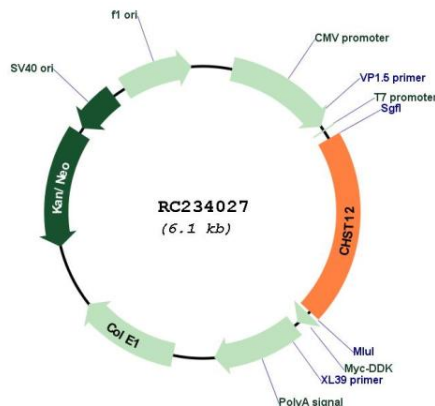
Protein Families: Transmembrane

Protein Pathways: Chondroitin sulfate biosynthesis, Sulfur metabolism

MW: 48.4 kDa

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 RC234027