

Product datasheet for SC212278

OriGene Technologies, Inc.

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Heparan Sulfate Proteoglycan 2 (HSPG2) (NM 005529) Human 3' UTR Clone

Product data:

Product Type: 3' UTR Clones

Product Name: Heparan Sulfate Proteoglycan 2 (HSPG2) (NM_005529) Human 3' UTR Clone

Symbol: Heparan Sulfate Proteoglycan 2 HSPG; PLC; PRCAN; SJA; SJS; SJS1 Synonyms:

Mammalian Cell

Selection:

Neomycin

pMirTarget (PS100062) Vector:

ACCN: NM 005529

Insert Size: 1102 bp

>SC212278 3'UTR clone of NM_005529 **Insert Sequence:**

The sequence shown below is from the reference sequence of NM_005529. The complete

sequence of this clone may contain minor differences, such as SNPs.

Blue=Stop Codon Red=Cloning site

GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAGGCCAAGAAGGGCGGAAAGATCGCCGTG

TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC

AGCCCGACAATGTCGAGTATATTATTATTAATATTATTATGAATTTTTGTAAGAAACCGAGGCGATGCC AAGCCACAAGGCTGGCCAGCAAGGCAGGTTGGATGGGAGTGGGCACCTCAGAAAGTCACCAGGACTTGG GGTCAGGAACAGTGGCTGGGTGGGCCCAGAACTGCCCCCACTGTCCCCCTACCCACCGATGGAGCCCCC AGATAGAGCTGGGTGGCCTGTTTCTGCAGCCCTTGGGCAGTTCTCACTCCTAGGAGAGCCAACCTCGGC GGAATTGTCTTTAGTGCCGGCTGTGGAGCAAAAGGCAGCTCACCCCTGGGCAGGCGGTCCCCATCCCCA CCAGCTCGTTTTTCAGCACCCCCACCCACCTCACCCAGCCCTGGCACCTCCTCTGGCAGACTCCCCC AGGGGCTGTAAGGGAAGGCCCACCCCAACTCTTACCAGGAGCTGCTACAGGCAGAGCCCAGCACTGATA ACTCCTCCAACAGACAACGGACGGACGGATGCCGCTGGTGCTCAGGAAGAGCTAGTGCCTTAGGTGGGG GAAGGCAGGACTCACGACTGAGAGAGAGAGGAGGGGGGATATGACCACCCTGCCCCATCTGCAGGAGCCT GAAGATCCAGCTCAAGTGCCATCCTGCCAGTGGCCCCCAGACTGTGGGGTTGGGACGCCTGGCCTCTGT GTCCTAGAAGGGACCCTCCTGTGGTCTTTGTCTTGATTTTTCTTAATAAACGGTGCTATCCCCGCCA CGAGATTTCGATTCCACCGCCGCCTTCTATGAAAGG

Restriction Sites: Sgfl-Mlul





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OTI Disclaimer: Our molecular clone sequence data has been matched to the sequence identifier above as a

point of reference. Note that the complete sequence of this clone is largely the same as the

reference sequence but may contain minor differences, e.g., single nucleotide

polymorphisms (SNPs).

Components: The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The

package also includes 100 pmols of both the corresponding 5' and 3' vector primers in

separate vials.

RefSeq: NM 005529.7

Summary: This gene encodes the perlecan protein, which consists of a core protein to which three long

chains of glycosaminoglycans (heparan sulfate or chondroitin sulfate) are attached. The perlecan protein is a large multidomain proteoglycan that binds to and cross-links many extracellular matrix components and cell-surface molecules. It has been shown that this protein interacts with laminin, prolargin, collagen type IV, FGFBP1, FBLN2, FGF7 and

transthyretin, etc., and it plays essential roles in multiple biological activities. Perlecan is a key component of the vascular extracellular matrix, where it helps to maintain the endothelial barrier function. It is a potent inhibitor of smooth muscle cell proliferation and is thus thought to help maintain vascular homeostasis. It can also promote growth factor (e.g., FGF2)

activity and thus stimulate endothelial growth and re-generation. It is a major component of basement membranes, where it is involved in the stabilization of other molecules as well as being involved with glomerular permeability to macromolecules and cell adhesion. Mutations

in this gene cause Schwartz-Jampel syndrome type 1, Silverman-Handmaker type of dyssegmental dysplasia, and tardive dyskinesia. Alternative splicing of this gene results in

multiple transcript variants. [provided by RefSeq, May 2014]

Locus ID: 3339

MW: 39