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Product datasheet for SC114816

FAM20B (NM_014864) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FAM20B (NM_014864) Human Untagged Clone
Tag:	Tag Free
Symbol:	FAM20B
Synonyms:	gxk1
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_014864, the custom clone sequence may differ by one or more nucleotides

ATGAAGCTAAAGCAGCGAGTCGTGCTGTTAGCAATTCTCCTTGTCATTTTTATCTTCACCAAAGTTTTCC
TGATTGACAACTTAGATACATCAGCTGCCAACCGGGAGGACCAGAGGGCCTTTCACCGAATGATGACTGG
CTTGCGGGTGGAGCTGGCACCCAAGCTGGACCATACCTTGCAGTCTCCCTGGGAGATTGCAGCCCAGTGG
GTGGTTCCCCGGGAAGTGTACCCTGAAGAGACACCAGAGCTGGGGGCAGTCATGCATGCCATGGCCACCA
AGAAAATCATTAAAGCTGATGTGGGTTATAAAGGGACACAGCTGAAAGCCTTACTGATACTTGAAGGAGG
CCAGAAAGTTGTTTTCAAACCTAAGCGGTATAGCCGAGACCATGTGGTGGAAGGGGAACCGTATGCTGGT
TATGATAGACACAATGCAGAGGTAGCAGCCTTTCACTTGGACAGGATTCTGGGTTTCCACCGAGCCCCCT
TGGTAGTTGGCAGATTTGTTAATCTTCGGACAGAGATCAAACCTGTCGCCACAGAGCAGCTGTTGAGCAC
CTTCCTAACTGTAGGAAACAATACTTGTTTTTATGGGAAGTGCTATTACTGCCGAGAAACAGAACCAGCT
TGTGCTGATGGAGACATAATGGAGGGATCTGTCACACTTTGGCTTCCAGATGTGTGGCCTCTGCAGAAGC
ACCGTCACCCATGGGGCAGGACTTACCGAGAAGGCAAATTGGCCAGGTGGGAGTATGATGAGAGCTACTG
TGATGCTGTGAAGAAAACGTCCCCTTATGACTCTGGCCCGCGCCTCTTGGACATCATTGACACAGCTGTC
TTTGATTACCTGATTGGCAATGCTGACCGCCATCACTATGAGAGCTTTCAAGATGATGAAGGCGCTAGTA
TGCTCATCCTTCTTGATAATGCCAAAAGCTTTGGGAACCCCTCGCTGGATGAAAGAAGCATTCTTGCCCC
TCTCTATCAGTGTTGCATCATTCGGGTGTCCACCTGGAACAGACTGAACTACCTAAAGAATGGTGTGCTA
AAGTCTGCCTTAAAATCTGCCATGGCCCATGACCCCATCTCCCCAGTGCTCTCTGATCCTCATCTGGACG
CCGTGGACCAGCGGCTCCTGAGTGTCCTGGCCACCGTGAAGCAGTGCACCGACCAGTTTGGGATGGACAC
AGTACTGGTGGAAGACAGGATGCCTCTCTCACACTTGTAA

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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_014864 unedited
TCAAATTTTGTAATACGACTCACTATAGGGCGGCCGCGAATTCGGCACGAGGGCGGCTGG
GGGCGGTGAGCGCGGCGTGGGGCTGCCCCTCCCCGGAGGCGGCGGGGGCGGCCGGGGCCG
CGCCGCACCGCACCGCGCGGGCGGCCATGGAGCGAGCCTAGGGCCCGACAGGAACTGTGG
AAGGTGCATCAGTGAAGAAATGGACCAATGTGTATAATCATGGAATCTCCTTGCTAACCA
TCACCACCAGCTCTCCTTAATACATGAGCAAGAGTGGGTCAGGGGAGAAGGAAAAGAGGT
CAACATGAAGCTAAAGCAGCGAGTCGTGCTGTTAGCAATTCTCCTTGTCATTTTTATCTT
CACCAAAGTTTTCCTGATTGACAACTTAGATACATCAGCTGCCAACCGGGAGGACCAGAG
GGCCTTTCACCGAATGATGACTGGCTTGCGGGTGGAGCTGGCACCCAAGCTGGACCATAC
CTTGCAGTCTCCCTGGGAGATTGCAGCCCAGTGGGTGGTTCCCCGGGAAGTGTACCCTGA
AGAGACACCAGAGCTGGGGGCAGTCATGCATGCCATGGCCACCAAGAAAATCATTAAAGC
TGATGTGGGTTATAAAGGGACACAGCTGAAAGCCTTACTGATACTTGAAGGAGGCCAGAA
AGTTGTTTTCAAACCTAAGCGGTATAGCCGAGACCATGTGGTGGAAGGGGAACCGTATGC
TGGTTATGATAGACACAATGCAGAGGTAGCAGCCTTTCACTTGGACAGGATTCTGGGTTT
CCACCGAGCCCCCTTGGTAGTTGGCAGAATTGTTAAATCTTCGACAGAGATCAAACCTGT
CGCCACAGAGCAGCTGTTGAGCACCTTNCCTACTGTTAGAAACATACTTGNTTTTTGGGA
AGTGCTATTACTGGCGAAAACANACCAGCTTGTGCTGATGGAGACATATGAGGGATCTGT
ACCACTTGG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_014864 unedited
GGGGGGTTGGGGATATTTATCCTTTTTTTTTTGTCGGAATGGAAACCCATAAAACACATT
AGAAATTTAGATCCATATCTGTCTTGTTTGGTATCTTACCAAGTACAATCTCTGTCTGTG
CAACAGCTCTGAGAGGAAATCCTTGGCAGATCAAAAGAGAGGGTAGTGGCTCCCACACTT
TCCATTTAAGCAAATAAATGAGCTTCTGAGTAGTTGTTCCCAGTTTCACCCAACATTTTG
TGTTTATGAGAAACACCTTAGTTCCTAAAAACCTGTGGTAGTCCAGTACCTAGCCCCTAC
CTTGTCACCACCCAGACTTGAGGAATTGAAGGGAAAAAAACTGGCCTTCCCCTGTAGGAT
GAGTTTCCCAAGGCCAGATGTGCCTGGCTCACTAGTATGTCTGGCCTGTGCTGGCACACT
AGAGTTGCTCAGTAGTTATTCGCTGATGAATGGTCTTTATGTTAATTAGGGTCCACTCTC
AGAGACTGAGAACCTTTCACTAAGGTTCTTTCTGAATCCTTCAGAAAGTCAGTGTTCCCC
TTTGTCAAAATAAATATGTTTTTCTTGCTAGAATACATATACGACTATATACATTACATA
TACTTTTACTCATGTTTCCTGAAGCTCAAACTCACAGGATGAGGCATATAAGATAGCTTA
CTGATGATGCTGTTTTACCATCATTGAGGTGTGGTCATTTACTGGTCAAAGAATACACGG
GTGATCGAGAAAGAAGGCTGAANAAATATGGCGGATGGGAAGAGAAGGGGAGGCAAAANC
ATTTTTTTTTTTTTAGAAAAAAAAAGATCGATTTCTTTGGAAGAAATGCTGGCTTCAGATGA
CTTGAAAATTGCCACGTATAGGACTCATCTTTCCCANNNATATATGCATTAATGTACCTG
AATTCTCCATTTCCTCA

Restriction Sites: NotI-NotI

ACCN: NM_014864

Insert Size: 5800 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_014864.2, NP_055679.1

RefSeq Size: 5960 bp

RefSeq ORF: 1230 bp

Locus ID: 9917

UniProt ID: O75063

Cytogenetics: 1q25.2

Protein Families: Secreted Protein, Transmembrane

Gene Summary: Responsible for the 2-O-phosphorylation of xylose in the glycosaminoglycan-protein linkage region of proteoglycans thereby regulating the amount of mature GAG chains. Sulfated glycosaminoglycans (GAGs), including heparan sulfate and chondroitin sulfate, are synthesized on the so-called common GAG-protein linkage region (GlcUAbeta1-3Galbeta1-3Galbeta1-4Xylbeta1-O-Ser) of core proteins, which is formed by the stepwise addition of monosaccharide residues by the respective specific glycosyltransferases. Xylose 2-O-phosphorylation may influence the catalytic activity of B3GAT3 (GlcAT-I) which completes the precursor tetrasaccharide of GAG-protein linkage regions on which the repeating disaccharide region is synthesized.[UniProtKB/Swiss-Prot Function]