

## Product datasheet for MC206301

### C530043G21Rik (BC019381) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	C530043G21Rik (BC019381) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	C530043G21Rik
Synonyms:	FAM20B, mKIAA0475
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC019381

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GCGGCCGGGGCCGCGCCGACCCGACCCGCGCGGGCGGCTATGGAGCGAGCCTGAGGCCCGCCAGGAATTG
TGGAGGCACTGCAGTGAAGAAATATGTAATCATGGAATCTCCTTGCTAATCGTCACCACCTGTTCCCTGT
GATAAGCCAGCCAGGACGTGGGCTGAGGAGAAGGAAAAGAGGCCACCATGAAGCTGAAGCAGCGAGTTGT
GCTGTTAGCAATACTCCTCGTCATTTTTATCTTACCAAAGTTTTCTGTAGACAAATTTAGATACATCA
GCTGCCAACCCAGAGGACCAGAGGGCTTTTACCGAATGATGACTGGCTTGC GGTTGGAGCTGGTCCCA
AGTTGGACCATAACCCTGCAGTCTCCTTGGGAGATTGCAGCCAGTGGTGGTCCCGGGAAGTGTATCC
TGAAGAGACACCAGAGCTGGGAGCAATCATGCATGCCACTAGCCACTAAGAAAATCATTAAAGCTGACGTG
GGCTATAAAGGGACACAGCTAAAAGCTTTACTGATTCTTGAAGGAGGACAGAAAGTTGCTTTAAGCCTA
AGCGGTACAGCAGAGACTATGTGGTAGAAGGGAGCCATACGCTGGTTATGACAGACACAATGCAGAGGT
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CTTGTTTTCTATGGGAAGTGCTACTACTGCCGAGAAACAGAGCCAGCATGTGCTGACGGTGACATGATGGA
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TACCGAGAAGGCAAACTGGCCAGGTGGGAATATGATGAGAGCTACTGCGATGCTGTGAAGAAAACATCCC
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CTGCCAGCAGCAGCTCTGCTCAGTCTTTATTTCCACACCAGAGGGCGAGCAGGTGTGACATAGGCTAAGG
AAGTGTTCAGAGTGTGCTCTCGGTGACCCTTGCTGTCTTTTCTCTACACCCATGGATTCTCTGAAA
ACACTTTCAGTTCCTTGTGCTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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<b>Restriction Sites:</b>	RsrII-NotI
<b>ACCN:</b>	BC019381
<b>Insert Size:</b>	1230 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">BC019381</a></u> , <u><a href="#">AAH19381</a></u>
<b>RefSeq Size:</b>	1800 bp
<b>RefSeq ORF:</b>	1230 bp
<b>Locus ID:</b>	215015
<b>Cytogenetics:</b>	1 G3
<b>Gene Summary:</b>	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 (GlcUA $\beta$ 1-3Gal $\beta$ 1-3Gal $\beta$ 1-4Xyl $\beta$ 1-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]