

## Product datasheet for MC211695

### Slx1b (NM\_029420) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Slx1b (NM_029420) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Slx1b
Synonyms:	1110030E23Rik; 2410170E21Rik; 4833422P03Rik; AI853643; Giyd1; Giyd2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC211695 representing NM_029420 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**C

ATGGACCATGCAGCAAGACCCGGGCGCTTCTTCGGTGTCTACTTGCTCTACTGCCAGAACCCTCGGCATC  
GGGGCCGCGTTTACGTTGGATTCACTGTCAATCCTGCTCGTCCGGTCCGGCAACACAACGCGGTCGCAA  
GAAAGGTGGAGCATGGCGGACGAGCGGCGAGGACCTGGGACATGGTGTCTATACACGGTTTCCCG  
TCTGCTGTGGCCGCCCTTCGGTTTGAATGGCCTGGCAACATCCTCAAGTTACGCGCCTGACGCACG  
TGGGGCCGCGCCTGCGCAGCGAGGCTGCCTTTGCCTTCACTTGCCTGCTGCGCATGCTTCGAGT  
TCCTCCGTGGGTGCGCCTTCCTCTAACACTGCGTTGGCTGCGACCTGACTTCCGCCATGAACTCTGTCCA  
GCGCCACCGGCACACATGCCATTGCCTTTGGACCACCTCCACCCAGCCCTTAGTCCCAAAACGACCAG  
CTGTAAGCGAGGCTGACAGCGAGCGACAGCTGGATCTAGGTACCAAGGCCAGATGCAGTCTGTGTGCGCG  
TCTGCTGCAGGATGAAGAGGGCCCTTGTGCTGCCCCACCCTGGTTGTCCCCTAAGGGCCCATATCATC  
TGCTTGGCAGAGGAGTTCTGTCAGGAAGAGCCGGGAGCTTCTGCCCTAGAGGGACATTGTCTAGCT  
GCAAGAAATCACTACTTTGGGAAACCTGGTTGGGAGTGCCACGCGGACACAGAGGAGGAAGAGGATT  
GGAGTTAGAGGAGGAACACTGGACAGACTTGCTGGAGACT**TGA**

**ACGCGT**ACGCGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-MluI
ACCN:	NM_029420
Insert Size:	813 bp



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<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>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<u><a href="#">NM_029420.4</a></u> , <u><a href="#">NP_083696.2</a></u>
<b>RefSeq Size:</b>	3692 bp
<b>RefSeq ORF:</b>	813 bp
<b>Locus ID:</b>	75764
<b>UniProt ID:</b>	<u><a href="#">Q8BX32</a></u>
<b>Cytogenetics:</b>	7 F3
<b>Gene Summary:</b>	<p>Catalytic subunit of the SLX1-SLX4 structure-specific endonuclease that resolves DNA secondary structures generated during DNA repair and recombination. Has endonuclease activity towards branched DNA substrates, introducing single-strand cuts in duplex DNA close to junctions with ss-DNA. Has a preference for 5'-flap structures, and promotes symmetrical cleavage of static and migrating Holliday junctions (HJs). Resolves HJs by generating two pairs of ligatable, nicked duplex products.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the protein coding transcript.</p>