

Product datasheet for **RN208122**

Slx1b (NM_001009292) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slx1b (NM_001009292) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Slx1b
Synonyms:	Giyd1; Giyd2; LRRGT00058; RGD1311568
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN208122 representing NM_001009292 Red=Cloning site Blue=ORF Orange=Stop codon

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGGGACATGCAGCAAGACCGGGCGCTTCTTCGGAGTCTACCTGCTCTACTGTGAGAACCTCGGCATC
GGGGCCGTGTTTACGTGGGATTCACTGTCAATCCTGCTCGTGGGTCCGGCAACACAACGCGGTTCGAA
AAAAGGTGGCGCTGGCGGACGCGGGCAGGACCTGGGACATGGTGTGATTCTACACGGGTCCCG
TCTGCTGTGGCCGCCCTTCGGTTTGAATGGCCTGGCAGCATCCTCAAGCTTCGCGACGTCTGACTCAG
TGGGGCCGCGCTGCGCAGCGAGGCTTCCTTTACCTTCCACCTGCGCGTGTGGCGCACATGCTTCGAGT
TCCTCCGTGGGTGCGCCTCCCTTAACAGTGCGGTGGCTGCGACCTGATTCCGCCATGAACCTGTGCCA
GCTCCACCACCACATGCCATTGCTTTGGACCGCCACCACCCAGCCCTTGGTCCCAAAACGACCCG
CTGCAAGTGAGGCTGACAGTGAGCGACGGCTGGATCTAGGTGCCAAGGCCAGCTGCACTCTATGTGCGCG
TATGCTGCAGGATGAAGAGGGCCCTTGTGTGCCCCATCCTGGTTGTCCCCTAAGGGCCCATATCATC
TGCTTGGCAGAGGAGTTCTGCAGGAAGAGCCTGGGCAGCTTCTGCCCTAGAGGGCCATTGTCTAGCT
GCAAGAAGTCACTACTTTGGGAAACCTGGTTGGGCAGTGCCACGAGGACACCGAGGAGGAAGAGGTGGA
TTTGAATTAGAGGAGGAACACTGGACAGACTTGCTGGAGACT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-MluI
ACCN:	NM_001009292
Insert Size:	816 bp



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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:	<u>NM_001009292.1</u> , <u>NP_001009292.1</u>
RefSeq Size:	2830 bp
RefSeq ORF:	816 bp
Locus ID:	293489
UniProt ID:	<u>Q5PQP5</u>
Cytogenetics:	1q36
Gene Summary:	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]