

Product datasheet for **SC112297**

GIYD2 (SLX1B) (NM_024044) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GIYD2 (SLX1B) (NM_024044) Human Untagged Clone
Tag:	Tag Free
Symbol:	GIYD2
Synonyms:	GIYD2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC112297 sequence for NM_024044 edited (data generated by NextGen Sequencing)

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ATGGGTCCCGGGGTCGCGGCGAGGCCAGGGCGCTTTTTCGGCGTCTACCTGCTCTAC
TGCTGAACCCCGGTACCGGGGCGCGTCTACGTGGGGTTCACTGTCAACTGCTCGT
CGGGTCCAGCAGCACAATGGGGGCCGAAAAAGCGGGGCTGGCGGACCAGCGGGCGA
GGGCCCTGGGAGATGGTGTCTGTCGTGCACGGCTTCCCGTCTCCGTGGCCGCCCTTCGG
TTTGAGTGGGCTTGGCAGCACCCGACGCCTCGCGCCGCTGGCGCACGTGGGGCCTCGC
CTGCGAGGAGAGACAGCCTTCGCTTTCCACCTGCGCGTGTGGCGCACATGCTGCGCGCA
CCGCCCTGGGCTCGCCTCCCGCTCACGCTGCGCTGGGTGCGCCAGACCTCCGCCAGGAC
CTCTGCCTCCCGCCGCCGCGACGTGCCTCTGGCCTTCGGGCCTCCACCGCCCCAGGCC
CCGGCCCCAAGGCGCCGCGCAGGTCCCTTTGATGACGCGGAGCCTGAGCCAGACCAGGGG
GATCCAGGGGCTGTGTCTCCCTGTGCGCCAGACCATCCAGGATGAAGAGGGGCCCTTG
TGTTGCCCCACCTGGCTGCCTGCTAAGGGCCCATGTGATCTGCCTGGCAGAGGAGTTT
CTTCAGGAAGAACCAGGGCAGCTTCTGCCCTAGAGGGCCAATGCCCTTGCTGTGAGAAG
TCACTGCTTTGGGAGACCTGATCTGGCTGTGCCAGATGGACACTGAAAAAGAAGTAGAA
GACTCAGAATTAGAAGAGGCACACTGGACAGACCTGCTGGAGACCTGA

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Clone variation with respect to NM_024044.3

768 g=>a



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_024044 unedited
 GTTCGTAAGTCGCGGCTCCGGATCCGTTAGGGCGGCGCGGATTCCGGCAGAGNAGCGAT
 CCAGCCCTCCCCTGGACCTAGGTCACTGCAATCAACCCCTGCTGTGGTTCCCGAACCC
 CAAGGCCCGATGGGTCCCGCGGGGGTCGCGGCGAGGCCAGGGCGCTTTTTCGGCGTCTAC
 CTGCTCTACTGCCTGAACCCCGGTACCGGGGCGCGTCTACGTGGGTTCACTGTCAAC
 ACTGCTCGTCGGGTCCAGCAGCACAATGGGGGCCGAAAAAGGGGGGCTGGCGGACC
 AGCGGGCGAGGGCCCTGGGAGATGGTCTCGTCTGTCACGGCTTCCCGTCTCCGTGGCC
 GCCCTTCGGTTTGAAGTGGGCTTGGCAGCACCCGACGCCCTCGCGCGCCTGGCGCACGTG
 GGGCCTCGCCTGCGAGGAGAGACAGCCTTCGCTTTCACCTGCGCGTGTGGCGCACATG
 CTGCGCGCACCGCCTGNGCTCGCCTCCCGCTCACGCTGCGCTGGGTGCGCCAGACCTC
 CGCCAGGACCTCTGCCTCCCGCCGCGCGCACGTGCCTCTGGCCTTCGGGCCTCCACCG
 CCCCANGCCCGGCCCAAGGCGCGCGCAGGTCCCTTTGATGACGCGGAGCCTGAGCCA
 GACCAGGGGGATCCAGGGCCTGCTGCTCCCTGTGCGCCAGACCATCCAGGATGAAGAG
 GGGCCCTTGTGTTGCCCCACCCTGGCTGCCTGCTAAAGGCCCATGTGATCTGCCTGGCA
 GAAGAAGTTCTTACGAAGAAACAGGGCAGCTCCTGCCCTAGAGGCCAATGCCCTTGCT
 GTGAGAATCACTGCTTTGGGAGACCTGACCTGCTGTGCCCGATGGACCTGAAAAGAAGTG
 AAGACCCGGATTGAC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_024044 unedited
 CCTTAACGTTTATGTAATCAATAAAAACCGCTGGACCCACGCAGGTGGCAGAAAAAGAG
 TAGGAGGGGGTAAGGACACTGAGGATCATGTCTCCAGCAGGTCTGTCCAGAGTGCCTCTT
 CTAATTCTGAGTCTTCTACTTCTTTTTCAGTGTCCATCTGGCACAGCCAGATCAGGTCTC
 CCAAAGCAGTGACTTCTCACAGCAAGGGCATTGGCCCTCTAGGGGCAGAAAGCTGCCCTG
 GTTCTTCTGAAGAACTCCTCTGCCAGGCAGATCACATGGGCCCTTAGCAGGCAGCCAG
 GGTGGGGGCAACACAAGGGCCCCCTTTCATCTTGATGGTCTGGGCGCACAGGGAGCAGC
 AGGCCCTTGATCCCCCTGGTCTGGCTCAGGCTCCGCGTCATCAAAGGGACCTGCGCGGC
 GCCTTGGGGCCGGGGCTGAGGCGGTGGAGGCCGATAGCCAGAGGCACGTGCGGCGGGC
 GCGGGAGGCATAGGTCTGGCGGAGGTCTGGGCGCACCCATCGCATTGTGAGCGGGAGGC
 GAGCCCAGGGCGGTGCGCGCAGCATGTGCGCCATCACGCGCATGTGGAAGCGAAGGCTG
 CCTCTCTCGCAGGCGAGGCCCCACGTGCCCCAGGCTGCGCGAGGCGTGGGGTGCTGCC
 AAGCCCCTCAAACCGAATGGCCGCACACCGAGGACGGGAATGCGTGCACGACGAGCACA
 TCTCCCAGGGCCCTAGCCGCTGGTCCGCCAGGCCCCCCCTTTTTCGGGCCCATCGAG
 CTGCTGGACCCGACGACAGGCTGCCAGTGAACCCCCGTATACCGGCCCGGTCCCGGGG
 GTTACAGCAGTACAGCAGTTTACCCCCAAAAGCGCCCTTGCTCTCCGCAACCCCGGGG
 GACCAATCGGCCTCTGGGGTTCCGAAC

Restriction Sites:

NotI-NotI

ACCN:

NM_024044

Insert Size:

1120 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:	<u>NM_024044.2, NP_076949.1</u>
RefSeq Size:	1130 bp
RefSeq ORF:	828 bp
Locus ID:	79008
UniProt ID:	<u>Q9BQ83</u>
Cytogenetics:	16p11.2
Domains:	Exci_endo_N
Gene Summary:	This gene encodes a protein that is an important regulator of genome stability. The protein represents the catalytic subunit of the SLX1-SLX4 structure-specific endonuclease, which can resolve DNA secondary structures that are formed during repair and recombination processes. Two identical copies of this gene are located on the p arm of chromosome 16 due to a segmental duplication; this record represents the more telomeric copy. Alternative splicing results in multiple transcript variants. Read-through transcription also occurs between this gene and the downstream SULT1A4 (sulfotransferase family, cytosolic, 1A, phenol-preferring, member 4) gene. [provided by RefSeq, Nov 2010] Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).