

## Product datasheet for **SC319817**

### GIYD2 (SLX1B) (NM\_178044) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GIYD2 (SLX1B) (NM_178044) Human Untagged Clone
Tag:	Tag Free
Symbol:	GIYD2
Synonyms:	GIYD2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	<p>&gt;OriGene sequence for NM_178044.1</p> <pre> CCCCGCTCCAGACAGGAGAGGGGCACGTACCGGCGCTACGGCTTCTGTCAGGCTGCCTCC GGATAGTCCCGAGAGCTTGTTCGAAGCAAGCACCTGCAGCCCTAGCGATCCAGCCCT CCCTGGACCCCTAGGTACGCGCAATCAACCCCTGCTGTGGTTCCGAACCCCAAGGCC GATGGGTCCCGCGGGGTCGCGGCGAGGCCAGGGCGCTTTTCGGCGTCTACCTGCTCTA CTGCTGAACCCCGGTACCGGGCGCGCTCTACGTGGGGTTCAGTGTCAACTGCTCG TCGGGTCCAGCAGCACAATGGGGCCGCAAAAAAGCGGGGCCTGGCGGACCAGCGGGCG AGGGCCCTGGGAGATGGTGCTCGTGCACGGCTTCCCGTCTCCGTGGCCGCCCTTCG GGATGAAGAGGGGCCCTTGTGTTGCCCCACCCTGGCTGCCTGCTAAGGGCCCATGTGAT CTGCCTGGCAGAGGAGTTTCTTCAGGAAGAACCAGGGCAGCTTCTGCCCTAGAGGGCCA ATGCCCTTGCTGTGAGAAGTCACTGCTTTGGGGAGACCTGATCTGGCTGTGCCAGATGGA CACTGAGAAAGAAGTAGAAGACTCAGAATTAGAAGAGGCACACTGGACAGACCTGCTGGA GACCTGATCCTCAGTGTCTTACCCCTCCTACCTCTTTTCTGTGCCACCTGCTGTGGGT CCAGCAGGTTTTTACTTGAGTACAATAAAAAAGTCTGAGTCAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAAAAAAAAAA </pre>

Restriction Sites: Please inquire

ACCN: NM\_178044

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).


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<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<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="#">NM_178044.1</a></u> , <u><a href="#">NP_835145.1</a></u>
<b>RefSeq Size:</b>	788 bp
<b>RefSeq ORF:</b>	486 bp
<b>Locus ID:</b>	79008
<b>UniProt ID:</b>	<u><a href="#">Q9BQ83</a></u>
<b>Cytogenetics:</b>	16p11.2
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (2) lacks an alternate in-frame exon in the central coding region, compared to variant 1, resulting in an isoform (2) that is shorter than isoform 1.</p>