

Product datasheet for **RG216451**

GIYD2 (SLX1B) (NM_024044) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	GIYD2
Synonyms:	GIYD2
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG216451 representing NM_024044
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGGGTCCCGCGGGGGTCGCGGCGAGGCCAGGGCGCTTTTCGGCGTCTACCTGCTCTACTGCCTGAACC
CCCGGTACCGGGGCGCGTCTACGTGGGGTTCAGTGTCAACACTGCTCGTCGGGTCCAGCAGCACAATGG
GGGCCGAAAAAGCGGGGCGCTGGCGGACCAGCGGGCGAGGGCCCTGGGAGATGGTGCTCGTCGTGCAC
GGCTTCCCGTCTCCGTGGCGCCCTTCGGTTTGAGTGGGCTTGGCAGCACCCGACGCCTCGCGCCGCC
TGGCGCACGTGGGGCCTCGCCTGCGAGGAGAGACAGCCTTCGCTTTCCACCTGCGCGTGCTGGCGCACAT
GCTGCGCGCACCGCCCTGGGCTCGCCTCCCGCTCACGCTGCGCTGGGTGCGCCAGACCTCCGCCAGGAC
CTCTGCCTCCCGCGCCGCGCACGTGCCTCTGGCCTTCGGGCTCCACCGCCCGAGGCCCGGCCCCAA
GGCGCCGCGCAGGTCCCTTTGATGACGCGGAGCCTGAGCCAGACCAGGGGGATCCAGGGGCTGCTGCTC
CCTGTGCGCCAGACCATCCAGGATGAAGAGGGGCCCTTGTGTTGCCCCACCTGGCTGCCTGCTAAGG
GCCCATGTGATCTGCCTGGCAGAGGAGTTTCTTCAGGAAGAACCAGGGCAGCTTCTGCCCCTAGAGGGCC
AATGCCCTTGCTGTGAGAAGTCACTGCTTTGGGAGACCTGATCTGGCTGTGCCAGATGGACACTGAGAA
AGAAGTAGAAGACTCAGAATTAGAAGAGGCACACTGGACAGACCTGCTGGAGACC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



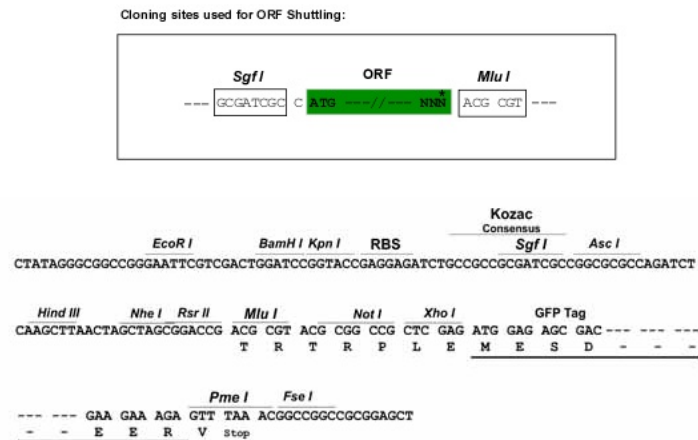
Protein Sequence: >RG216451 representing NM_024044
Red=Cloning site Green=Tags(s)

MGPAGVAARPGRFFGVYLLYCLNPRYGRVYVGFTVNTARRVQQHNGRKKGGAWRTSGRGPWEMVLVH
GFPSSVAALRFEWAQHPHASRRLAHVGPRLRGETAF AFHLRVL AHMLRAPPWARLPLTLRWVRPDLRQD
LCLPPPHVPLAFGPPPPQAPAPRRRAGPFDDAEPEPDQDGPACCSLCAQTIQDEEGPLCCPHPGCLLR
AHVICLAEEFLQEEPGQLLPLEGQPCCEKSLWGLIWLQMDTEKEVEDSEEEAHWTDLLET

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_024044

ORF Size: 825 bp

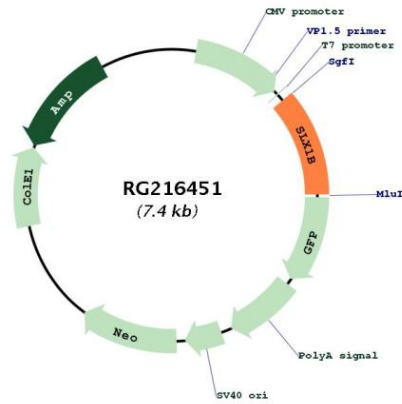
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_024044.4</u>
RefSeq Size:	1170 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]

Product images:



Circular map for RG216451