

Product datasheet for **RG202638**

SDOS (NUDT16L1) (NM_032349) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SDOS (NUDT16L1) (NM_032349) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SDOS
Synonyms:	SDOS; TIRR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG202638 representing NM_032349 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGACGGCGGTTCCGGAGCTGAAGCAGATCAGCCGGTGGAGGCGATGCGCCTAGGGCCGGCT
GGAGCCACTCGTGCCACGCCATGCTGTACGCCCAACCCTGGGAGCTTTCGGCCGCATCCCCATGCG
CTTCTCGGTGCTGATGCAGATGCGTTTCGACGGGCTGCTGGGCTTCCCCGGGGCTTCGTGGACCGGCGC
TTCTGGTCGCTGGAGGACGGCTGAACCGGTGCTGGCCTGGGCTGGCTGCCTGCGCCTCACCAGG
CCGACTACCTGAGCTCGACCTGACCGAGGGCCACACCGCGTCTGGCGCACCTGTACGCGCGGCAGCT
GACGCTGGAGCAGCTGCACGCCGTGGAGATCAGCGCGGTGCACTCGCGGACCACGGCCTGGAGGTGCTG
GGCCTCGTGCGGGTCCCCTGTACACCCAGAAGGACCGAGTCGGAGGCTTCCCCAACTTCTGAGCAACG
CCTTCGTGAGCACGGCTAAGTGCCAGCTCCTTTGCCCTCAAGGTGCTCAACATGATGCCCGAGGAGAA
GCTGGTTGAGGCCCTGGCTGCAGCCACCGAGAAGCAGAAGAAGGCCCTGGAGAAGTTGCTCCCGGCTCC
TCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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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: [NM_032349.3](#)

RefSeq Size: 1341 bp

RefSeq ORF: 636 bp

Locus ID: 84309

UniProt ID: [Q9BRJ7](#)

Cytogenetics: 16p13.3

Gene Summary: Key regulator of TP53BP1 required to stabilize TP53BP1 and regulate its recruitment to chromatin (PubMed:28241136). In absence of DNA damage, interacts with the tandem Tudor-like domain of TP53BP1, masking the region that binds histone H4 dimethylated at 'Lys-20' (H4K20me2), thereby preventing TP53BP1 recruitment to chromatin and maintaining TP53BP1 localization to the nucleus (PubMed:28241136). Following DNA damage, ATM-induced phosphorylation of TP53BP1 and subsequent recruitment of RIF1 leads to dissociate NUDT16L1/TIRR from TP53BP1, unmasking the tandem Tudor-like domain and allowing recruitment of TP53BP1 to DNA double strand breaks (DSBs) (PubMed:28241136). Binds U8 snoRNA (PubMed:18820299).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG202638