

Product datasheet for **SC320132**

SDOS (NUDT16L1) (NM_032349) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: SDOS (NUDT16L1) (NM_032349) Human Untagged Clone
Tag: Tag Free
Symbol: SDOS
Synonyms: SDOS; TIRR
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC (PS100020)
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_032349.2
GTCAGTGCCAAGATGTCGACGGCGGCGTTCCGGAGCTGAAGCAGATCAGCCGGGTGGAG
GCGATGCGCCTAGGGCCGGGCTGGAGCCACTCGTGCCACGCCATGCTGTACGCCGCCAAC
CCTGGGCAGCTCTTCGGCCGCATCCCCATGCGCTTCTCGGTGCTGATGCAGATGCGTTTC
GACGGGCTGCTGGGCTTCCCCGGGGGCTTCGTGGACCGGCGCTTCTGGTCGCTGGAGGAC
GGCCTGAACCGGGTGTGGGCTGGGCTGGGCTGCCTGCGCCTCACCGAGGCCGACTAC
CTGAGCTCGCACCTGACCGAGGGCCACACCGCGTCGTGGCGCACCTGTACGCGCGGAG
CTGACGCTGGAGCAGCTGCACGCCGTGGAGATCAGCGCGGTGCACTCGCGCGACCCAGGC
CTGGAGGTGCTGGGCTCGTGGGCTCCCGCTGTACACCCAGAAGGACCGAGTCGGAGGC
TTCCCCAACTTCTGAGCAACGCCTTCGTGAGCACGGCTAAGTGCCAGCTCCTCTTTGCC
CTCAAGGTGCTCAACATGATGCCCGAGGAGAAGCTGGTTGAGGCCCTGGCTGCAGCCACC
GAGAAGCAGAAGAAGGCCCTGGAGAAGTTGCTCCCGGCCCTCCTTTGAGGGCTGCCTGAG
CTGGTGGCACCTCCCCTGGGCCGGAAGACTGGGAATTCCTGCTAAGTGTGGCTTCTAGA
GTGTTTGTGTGTACCCCGCTTCTGACTGCCTAGGGCGAGTGGGCATCCTGTATCATCTC
CACTGTCCAAGCAGTCACTAGGTGGCGGCCGGGCCAGCTGGAACCCAGCCCATCCTCTC
AGGCAGAGCAGGGTGGTCCGGGCACACTGGGCTGCCTTCCAGCCTCAGGATGCTCTTG
TTTATTCTGGGCTCAGACCCTCCTTGTACGTCTCATCACAGCTGGTAGAGACCCAGGA
GTGCCTGATTGTCCCACAGGGGTGGCGCACAGCTCTGGGACCCTCAGAAGATGGGATGT
GTGGGTGGAGGATGCCTTGTCTCGGTGAGCTCATTCTGCCTCCTCCTGAGCCAGTTCA
GGGCTGGGGGAGAGCCAGCTTGGGTTAGGAAGTTAATAACTGTAAATTTGGGTTGTT
GTTGGATTTACTTTGCTAGATTTTCTTTTACCACGTGTGAAGTGTGGGTGAGGTTTCA
AAGTAGCTTACCCACGTGGCTTGGTTCCAGGGACAGTCAGGGCCTCGGGGGCCAGC
TATGTACAACGAAGCTGTGAAGGAGAAGACAATAAAGTCGCTCCGCAGCTGCAAAAAA
AAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire



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ACCN:	NM_032349
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).
OTI Annotation:	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.
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:	<ol style="list-style-type: none">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_032349.2</u> , <u>NP_115725.1</u>
RefSeq Size:	1341 bp
RefSeq ORF:	636 bp
Locus ID:	84309
UniProt ID:	<u>Q9BRJ7</u>
Cytogenetics:	16p13.3
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) encodes the longest isoform (1).</p>