

Product datasheet for **SC323959**

OSGIN1 (NM_182980) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OSGIN1 (NM_182980) Human Untagged Clone
Tag:	Tag Free
Symbol:	OSGIN1
Synonyms:	BDGI; OKL38
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_182980.2
CACAGGGTAATGGGTGTCCCGATGTCACGGGGACTCTGTGATCCGTGTTCCCCTGACCC
TCCTAGTGCACAACCTGGCCGGGCTCACTGGGCTCCTGCACCACTGCCTGTCAGGTCCGC
TGCCAGCCCCAAGCCCCACCAGCCATGAGCTCCTCCAGAAAGGACCACCTCGGCGCCA
GCAGCTCAGAGCCCTCCCGTCATCATTGTGGTAACGGCCCTCTGGTATCTGCCTGT
CCTACCTGCTCCTCCGGTACACACCTACACGAAGCCAGATGCCATCCACCCACACCCCC
TGCTGCAGAGGAAGCTCACCGAGGCCCGGGGGTCTCCATCCTGGACCAGGACCTGGACT
ACCTGTCCGAAGCCTCGAAGGCCGATCCAAAGCCCGTGGCCCTGCTCTTTGATGCC
TTCTACGCCCAGACAGACTTTGGGGAAACATGAAGTCGGTCTCACCTGGAAGCACC
GGAAGGAGCACGCCATCCCCACGTGGTCTGGGCCGGAACCTCCCCGGGGAGCCTGGC
ACTCCATCGAAGGCTCCATGGTATCCTGAGCCAAGGCCAGTGGATGGGGCTCCCGGACC
TGGAGGTCAAGGACTGGATGCAGAAGAAGCAAGAGGTCTTCGCAACAGCCGGGCCACTG
CCGGGGACATCGCCCACTACTACAGGGACTACGTGGTCAAGAAGGGTCTGGGCATAACT
TTGTGTCCGGTGTGTAGTCACAGCCGTGGAGTGGGGACCCCGATCCCAGCAGCTGTG
GGCCCCAGGACTCCAGCCCTCTTCCAGGTGAGCGGCTTCTGACCAGGAACCAGGCC
AGCAGCCCTTCTCGCTGTGGGCCCGCAACGTGGTCTCGCCACAGGCACGTTTCGACAGCC
CGCCCCGGCTGGGCATCCCCGGGGAGGCCCTGCCCTTCATCCACCATGAGCTGTCTGCC
TGGAGGCCGCCACAAGGGTGGGTGCGGTGACCCCGGCCTCAGACCCTGTCTCATCATTG
GCGCGGGGCTGTGAGCGCCGACGCGGTCTCTACGCCGCCACTACAACATCCCGGTGA
TCCATGCCTTCCGCCGGCCGTGGACGACCCTGGCCTGGTGTCAACCAGCTGCCAAGA
TGCTGTACCCCGAGTACCACAAGGTGCACCAGATGATGCGGGAGCAGTCCATCCTGTCG
CCAGCCCTATGAGGGTTACCGCAGCCTCCCAGGCACCAGCTGCTGTGCTTCAAGGAAG
ACTGCCAGGCCGTGTTCCAGGACCTCGAGGGTGTGAGAAGGTGTTGGGGTCTCCCTGG
TGCTGGTCTCATCGGCTCCCACCCGACCTCTCCTTCTGCTGGGGCAGGGGCTGACT
TTGCAGTGGATCCTGACCAGCCGTGAGCGCAAGAGGAACCCATTGACGTGGACCCCT
TCACCTACCAGAGCACCCGCCAGGAGGGCCTGTACGCCATGGGGCCGCTGGCCGGGGACA
ACTTCGTGAGGTTGTGCAAGGGGGCGCCTTGGCTGTGGCCAGCTCCCTGCTAAGGAAGG
AGACCAGGAAGCCACCCTAACACTCGGCCAGACCCGCTGGCTCCCAGGCCCTGAGAGGAC
GGAGATGACCACATCCCTGCTGGATGCAGGACCCGTCAAAGATGCCCGGGGAGGGGTG
TCAGCCCACGTTGCTGGCCTTTGGGGTCAAGAGGAGTAGGGATCCCAGGCTGCCCTGGAC
TTAGACCAGTGTCTGAGGTGGTAACA

Restriction Sites: ECoRI-NOT

ACCN: NM_182980

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:

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_182980.2](#), [NP_892025.1](#)

RefSeq Size: 2249 bp

RefSeq ORF: 1434 bp

Locus ID: 29948

Cytogenetics: 16q23.3

Gene Summary: This gene encodes an oxidative stress response protein that regulates cell death. Expression of the gene is regulated by p53 and is induced by DNA damage. The protein regulates apoptosis by inducing cytochrome c release from mitochondria. It also appears to be a key regulator of both inflammatory and anti-inflammatory molecules. The loss of this protein correlates with uncontrolled cell growth and tumor formation. Naturally occurring read-through transcription exists between this gene and the neighboring upstream malonyl-CoA decarboxylase (MLYCD) gene, but the read-through transcripts are unlikely to produce a protein product. [provided by RefSeq, Aug 2011]