

Product datasheet for **RG218475**

OSGIN1 (NM_013370) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OSGIN1 (NM_013370) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	OSGIN1
Synonyms:	BDGI; OKL38
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG218475 representing NM_013370
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGGGAAGTGGAGACTGAGAGGCTGCTGCCGGGAAATATGCAGTGCAGACAAGAGTTCTGCTACTC
 TCACCTCATCAGAGTTGTTTTCTACCAGGACCCAGCCCCAGCCCCAGCCCCAGCCCCCTGCTGGCAGATGC
 TCCGGTACCCTGGGCTGTGGCTTCCAGGCTGTGCGTGACTCCAGGGCAGGGCTGTGGCCACCAGGGCCAG
 GACGAGGGTCCGCTGCCAGCCCCAAGCCCCCACCAGCCATGAGCTCCTCCAGAAAGACCACCTCGGCG
 CCAGCAGCTCAGAGCCCCCTCCGGTCACTATTGTGGTAACGGCCCCCTGTTATCTGCCTGTCTACCT
 GCTCTCCGGTACACACCCTACACGAAGCCAGATGCCATCCACCACACCCCTGCTGCAGAGGAAGCTC
 ACCGAGGCCCGGGGTCTCCATCCTGGACCAGGACCTGGACTACCTGTCCGAAGGCTCGAAGGCCGAT
 CCCAAAGCCCCGTGGCCCTGCTCTTTGATGCCCTTCTACGCCCAGACACAGACTTTGGGGAAACATGAA
 GTCGGTCTCACCTGGAAGCACCAGGAGCAGCCATCCCCACGTGTTCTGGGCCGGAACCTCCCC
 GGGGAGCTGGACTCCATCGAAGGCTCCATGGTGATCCTGAGCCAAGGCCAGTGGATGGGGCTCCCGG
 ACCTGGAGGTCAAGGACTGGATGCAGAAGAAGCGAAGAGGTCTTCGCAACAGCCGGGCCACTGCCGGGA
 CATCGCCACTACTACAGGGACTACGTGGTCAAGAAGGTCTGGGGCATAACTTTGTGTCCGGTGTGTA
 GTCACAGCCGTGGAGTGGGGACCCCCGATCCCAGCAGCTGTGGGGCCAGGACTCCAGCCCCCTTTC
 AGGTGAGCGGCTTCTGACCAGGAACCAGGCCAGCAGCCTTCTCGTGTGGGCCCGCAACGTGGTCTC
 CGCCACAGGCAGTTCGACAGCCCGCCGGCTGGGATCCCCGGGAGGCCCTGCCCTTCCATCCACCAT
 GAGTGTCTGCCCTGGAGCCGCCACAAGGTGGGTGCGGTGACCCCGCCCTCAGACCCTGTCTCATCA
 TTGGCGGGGCTGTGACGGCCGACGCGGTCTCTACGCCCCACTACAACATCCCGGTGATCCATCA
 CTTCGCGCGGGCGTGGACGACCCCTGGCTGTTCAACCAGCTGCCCAAGATGCTGTACCCCGAGTAC
 CACAAGGTGCACCAGATGATGCGGGAGCAGTCCATCCTGTGCCCCAGCCCCATGAGGGTTACCGCAGCC
 TCCCCAGGCACCAGCTGTGTGTTCAAGGAAGACTGCCAGGCCGTGTTCCAGGACCTCGAGGGTGTGGA
 GAAGGTGTTGGGGTCTCCCTGGTGTGGTCTCATCGGCTCCCACCCGACCTCTCCTTCTGCCTGGG
 GCAGGGGCTGACTTTCAGTGGATCCTGACCAGCCGCTGAGCGCCAAGAGGAACCCATTGACGTGGACC
 CCTTACCTACCAGACCCCGCAGGAGGGCCTGTACGCCATGGGGCCGCTGGCCGGGACAACCTCGT
 GAGTTTGTGACGGGGGCGCTTGGCTGTGGCCAGCTCCCTGCTAAGGAAGGAGACCAGGAAGCCACCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - **GTTTAA**

Protein Sequence:

>RG218475 representing NM_013370
 Red=Cloning site Green=Tags(s)

MGKWRLRGCCRGNMQCRQEVPA TLTSSELFSTRTPQPQPQLLADAPVPWAVASRLCVTPGQCGHQGQ
 DEG L P A P S P P P A M S S S R K D H L G A S S E P L P V I I V G N G P S G I C L S Y L L S G Y T P Y K P D A I H P H L L Q R K L
 T E A P G V S I L D Q D L D Y L S E G L E G R S Q S P V A L L F D A L L R P D T D F G G N M K S V L T W K H R K E H A I P H V L G R N L P
 G G A W H S I E G S M V I L S Q G Q W M G L P D L E V K D W M Q K R R R L R N S R A T A G D I A H Y Y R D Y V V K K G L G H N F V S G A V
 V T A V E W G T P D P S S C G A Q D S S P L F Q V S G F L T R N Q A Q Q P F S L W A R N V V L A T G T F D S P A R L G I P G E A L P F I H H
 E L S A L E A A T R V G A V T P A S D P V L I I G A G L S A A D A V L Y A R H Y N I P V I H A F R R A V D D P G L V F N Q L P K M L Y P E Y
 H K V H Q M M R E Q S I L S P S P Y E G Y R S L P R H Q L L C F K E D C Q A V F Q D L E G V E K V F G V S L V L V L I G S H P D L S F L P G
 A G A D F A V D P D Q P L S A K R N P I D V P F T Y Q S T R Q E G L Y A M G P L A G D N F V R F V Q G G A L A V A S S L L R K E T R K P P

TRTRPLE - GFP Tag - **V**

Restriction Sites:

Sgfl-Mlul

ACCN:	NM_013370
ORF Size:	1680 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:	<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:	NM_013370.2 , NP_037502.2
RefSeq Size:	2400 bp
RefSeq ORF:	1682 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]