

Product datasheet for **RG212870**

OSGIN1 (NM_182981) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OSGIN1 (NM_182981) 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)



[View online »](#)

ORF Nucleotide Sequence:

>RG212870 representing NM_182981
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGCTCCTCCAGAAAGGACCCTCGGCCAGCAGCTCAGAGCCCCTCCCGTTCATCATTGTGGGTA
 ACGCCCCCTCTGGTATCTGCCTGTCTACCTGCTCTCCGGCTACACACCTACACGAAGCCAGATGCCAT
 CCACCCACACCCCTGCTGCAGAGGAAGCTCACCGAGGCCCGGGGGTCTCCATCCTGGACCAGGACCTG
 GACTACCTGTCCGAAGGCTCGAAGGCCGATCCCAAAGCCCGTGGCCCTGCTCTTTGATGCCCTTCTAC
 GCCCAGACACAGACTTTGGGGGAAACATGAAGTCGGTCTCACCTGGAAGCACCGAAGGAGCACGCCAT
 CCCCCACGTGGTCTGGGCCGGAACCTCCCGGGGAGCCTGGCACTCCATCGAAGGCTCCATGGTGATC
 CTGAGCCAAGGCCAGTGGATGGGCTCCCGACCTGGAGGTCAAGGACTGGATGCAGAAGAAGCGAAGAG
 GTCTTCGCAACAGCCGGGCCACTGCCGGGACATCGCCACTACTACAGGGACTACGTGGTCAAGAAGGG
 TCTGGGCATAACTTTGTGTCCGGTGTGTAGTCACAGCCGTGGAGTGGGGGACCCCGATCCCAGCAGC
 TGTGGGGCCAGGACTCCAGCCCCTTCCAGGTGAGCGGCTTCTGACCAGGAACCAGGCCAGCAGC
 CCTTCTCGCTGTGGGCCGCAACGTGGTCTCGCCACAGGCACGTTGACAGCCCGGCCCGGCTGGGCAT
 CCCCAGGGAGGCCCTGCCCTTATCCACATGAGCTGTCTGCCCTGGAGGCCGCCACAAGGGTGGGTGCG
 GTGACCCCGCCCTCAGACCCTGTCTCATCATTGGCGCGGGGCTGTGACGGCCGACCGGCTCCTTACG
 CCCGCCACTACAACATCCCGGTGATCCATGCCTTCCCGCGGGCCGTGGACGACCTGGCCTGGTGTTCAA
 CCAGCTGCCAAGATGCTGTACCCCGAGTACCACAAGTGCACCAGATGATGCGGGAGCAGTCCATCCTG
 TCGCCCAGCCCCTATGAGGGTACCAGCCTCCCGAGCAGCAGCTGCTGTGCTCAAGGAAGACTGCC
 AGGCCGTGTTCCAGGACCTCGAGGGTGTGGAAGGTGTTGGGGTCTCCCTGGTCTGGTCTCCTCCTCGG
 CTCCCACCCCGACTCTCCTTCTGCTGGGGCAGGGGCTGACTTTGAGTGGATCCTGACCAGCCGCTG
 AGCGCCAAGGAACCCATTGACGTGGACCCCTTACCTACCAGAGCACCCGCCAGGAGGGCTGTACG
 CCATGGGGCCGCTGGCCGGGACAACCTCGTGAGGTTTGTGAGGGGGCGCCTTGGCTGTGCCAGCTC
 CTGCTAAGGAAGGAGACCAGGAAGCCACC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG212870 representing NM_182981
 Red=Cloning site Green=Tags(s)

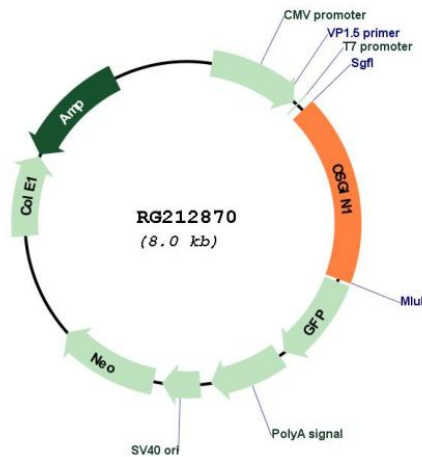
MSSSRKDHLGASSEPLPVIIVGNPVGICLSYLLSGYTPYTKPDAIHPHPLLQRKLTEAPGVSILDQDL
 DYLSGLEGRSQSPVALLFDALLRPDTEGGMKSVLTKHRKEHAIPHVVLGRNLPGGAWHSIEGSMVI
 LSQGWMLPDLEVKDWMQKRRRLRNSRATAGDIAHYRDRYVVKKGLGHNLFVSGAVVTAVEWGTDPSS
 CGAQDSSPLFQVSGFLTRNQAQPFSLWARNVVLATGTFDSPARLGIPGEALPFIHHELSALEAATRVGA
 VTPASDPVLIIGAGLSAADAVLYARHYNIPVIHAFRRVDDPGLVFNQLPKMLYPEYHKVHQMMREQSIL
 SPSPYEGYRSLPRHQLLCKEDCQAVFQDLEGVEKVFVSVLVLVLIIGSHPDLSFLPGAGADFAVDPDQPL
 SAKRNPIDVDPFTYQSTRQEGLYAMGPLAGDNFVRFVQGGALAVASSLLRKETRKPP

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Plasmid Map:


ACCN: NM_182981

ORF Size: 1431 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.

RefSeq: [NM_182981.3](#)

RefSeq Size: 1930 bp

RefSeq ORF: 1434 bp

Locus ID: 29948

UniProt ID: [Q9UJX0](#)

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]