

Product datasheet for **SC126750**

MID1 (NM_033290) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MID1 (NM_033290) Human Untagged Clone
Tag:	Tag Free
Symbol:	MID1
Synonyms:	BBBG1; FXY; GBBB1; MIDIN; OGS1; OS; OSX; RNF59; TRIM18; XPRF; ZNFXY
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC126750 sequence for NM_033290 edited (data generated by NextGen Sequencing)

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ATGGAAACTGGAGTCAGAAGTACCTGCCCTATTTGTCTGGAGCTCTTTGAGGACCCT
CTTCTACTGCCCTGCGCACACAGCCTCTGCTTCAACTGCGCCACCGCATCTAGTATCA
CACTGTGCCACCAACGAGTCTGTGGAGTCCATACCGCCTTCCAGTGCCCCACCTGCCGG
CATGTCATCACCTCAGCCAGCGAGGTCTAGACGGGCTCAAGCGCAACGTCACCCCTACAG
AACATCATCGACAGGTTCCAGAAAGCATCAGTGAGCGGGCCCAACTCTCCAGCGAGACC
CGTCGGGAGCGGGCCTTTGACGCCAACACCATGACCTCCGCCGAGAAGGTCTCTGCCAG
TTTTGTGACCAGGATCCTGCCAGGACGCTGTGAAGACCTGTGTCACTTGTGAAGTATCC
TACTGTGACGAGTGCCTGAAAGCCACTACCCGAATAAGAAGCCCTTTACAGGCCATCGT
CTGATTGAGCCAATTCGGACTCTCACATCCGGGGGCTGATGTGCTTGGAGCATGAGGAT
GAGAAGGTGAATATGACTGTGTGACCGATGACCAGTTAATCTGTGCCTTGTGAAACTG
GTTGGGCGGCACCGCATCATCAGGTGGCAGCTTTGAGTGAGCGCTATGACAAATTGAAG
CAAACTTAGAGAGTAACCTCACCAACCTATTAAGAGGAACACAGAAGTGGAGACCCTT
TTGGCTAAACTCATCAAACCTGTCAACATGTTGAAGTCAATGCATCACGTCAAGAAGCC
AAATTGACAGAGGAGTGTGATCTTCTCATTGAGATCATTAGCAAGACGACAGATTATT
GGAACCAAGATCAAGAAGGGAAGGTGATGAGGCTTCGCAAACCTGGCTCAGCAGATTGCA
AACTGCAAACAGTGCATTGAGCGGTGAGCATCACTCATCTCCAAAGCGGAACACTCTCTG
AAGGAGAATGATCATGCGCGTTTCTACAGACTGCTAAGAATATCACCGAGAGAGTCTCC
ATGGCAACTGCATCTCCAGGTTCTAATTCCTGAAATCAACCTCAATGACACATTTGAC
ACCTTTGCCTTAGATTTTCCGAGAGAAGAACTGCTAGAATGTCTGGATTACCTTACA
GCTCCCAACCCTCCACAATTAGAGAAGAGCTCTGCACAGCTTCATATGACACCATCACT
GTGCATTGGACCTCCGATGATGAGTTCAGCGTGGTCTCCTACGAGCTCCAGTACACCATA
TTCACCGGACAAGCCAACGTCGTTAGTCTGTGTAATTCGGCTGATAGCTGGATGATAGTA
CCCAACATCAAGCAGAACCCTACACGGTGCACGGTCTGCAGAGCGGCACCAAGTACATC
TTCATGGTCAAGGCCATCAACCAGGCGGGCAGCCGAGCAGTGAAGCTGGGAAGTTGAAG
ACAAACAGCCAACCTTTAAACTGGATCCCAAATCTGCTCATCGAAAACCTGAAGGTGTCC
CATGATAACTTGACAGTAGAACGTGATGAGTCAATCAAGAAGAGTACACACCTGAA
CGCTTACCAGCCAGGGAGCTATGGAGTAGCTGGAAATGTGTTTATTGATAGTGGCCGG
CATTATTGGGAAGTGGTCAATGGAAGCACATGGTATGCCATTGGTCTTGCTTACAAA
TCAGCCCCGAAGCATGAATGGATTGGGAAGAACTCTGCTTCTGGGCGCTCTGCCGCTGC
AACAAACTGGGTGGTGAACACAATAGCAAGGAAATCCCATTGAGCCTGCCCCAC
CTCCGGCGCTGGGCATCCTGCTGGACTATGATAACGGCTCTATCGCCTTTTATGATGCT
TTGAACTCCATCCACCTTACACCTTCGACGTCGCATTTGCGCAGCCTGTTTGCCCCACC
TTCACCGTGTGGAACAAGTGTCTGACGATTATCACTGGGCTCCCTATCCCAGACCATTG
GACTGCACAGAGCAGCTGCCGTGA
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Clone variation with respect to NM_033290.3

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_033290 unedited
 GTTCGGATTATGTAATACGACTCACTATAGNNGCGGCCGNAATTCGGCACGAGGGTT
 AGTATGTAGTGGAGCTGGTGGTGTGAAGCTGATTCATTTTGTTCAAAGCCCAAAGGCA
 TGCTGCCGAACACAGGCACAAGCACAGCAGCGTCTCCTTAGAAATAATGACTCCAAGGCA
 AACAGCCCTCATTGCAAAATGTAGAAGACTGCCATCTGCTTGCTCCACTGTGGTTTATT
 CGTTTCAGGGTTTTAAATGACGTAATAAAAAGATAGCTGATCAGCTTCCTTGGGTTTTGC
 TGATGACACAAGAGAGCTTTGCCTGAAGATGGAACACTGGAGTCAGAAGTACCTGACCTGCC
 TATTTGTCTGGAGCTCTTTGAGGACCCTTCTACTGCCCTGCGCACACAGCCTCTGCTT
 CAACTGCGCCACCGCATCCTAGTATCACACTGTGCCACCAACGAGTCTGTGGAGTCCAT
 CACCGCCTTCCAGTGCCCACTGCCGGCATGTCATCACCTCAGCCAGCGAGGTCTAGA
 CGGGCTCAAGCGCAACGTCAACCTACAGAACATCATCGACAGGTTCCAGAAAGCATCAGT
 GAGCGGGCCCAACTCTCCAGCGAGACCCGTGGAAAGCGGGCCTTTGACGCCAACACCAT
 GACCTCCGCCGAGAAGGTCTCTGCCAGTTTTTGACCCAGATCCTGCCAGACGCTGTGAA
 GACCTGTGTCACTTGTGAAATATCCTACTGTGACGAGTGCCTGAAAGCACTCACCCCAAT
 AAGAACCCTTACAGTCCATTGGCTGATGGAGCCATTCCCGACCTCCCATACGGGGGCT
 GAAGTGCCTGGACCCTGAGGATGAGTAGCCAAACTTAAAGAGAAACCCCCACCTTATT
 AAAAGAAACCAAAACCGTGGACCCTTTGG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_033290 unedited
 GCGGCACGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTGGTCTTACAACCTATTGT
 AAATACTACTAGACTATAGAGGGACTTCTACATCTTTCAAGATGTGTTTAAATAAAGTCT
 GTTTATAATAACTTTTGAGGCATGAATCTAGCAAATAGTACTTTATACAATGTCCCTTGT
 CATTACCAACTCATAAATATTAAGTGTTTTTTCAGTGACTTATGTTTGGATGTGGTAGTGC
 TGATCAAGGCCATGTGCTGATGTCTGGAGAGCAAAATCAATCCAAAGTGGTGTGCTAT
 TTGTGACAGAACATGTTTATTTACTCAGCCCCGGAGACAAAAGGAAAATTGATATGGGGG
 AGCGGGAATAGGAGAATTAATAATGTAGTGAAGAAATTTACAGGTCTAAAGGAACTA
 TAAAAGGAAGGATAAAGTAGATTCTATACTATAAAACAGAACTCTACCTCTGATAAAAG
 ACAATCAGCCTGAATTTTTGAATAATCAATAGGATTCAAATGACTATTTTCAATTGCA
 ATCTCATTCTTAATGTTCTTCCAGAACCTTAACCCTGAGAGAAGCAGGGCAAAATGTGG
 CCAAAGGATTGAGAACCCTTTCTTTCCAACATTATCCCATCAGTATGAGAAAGTAAAGT
 TTAGCCACGGCAAGGTCCGAAGTCCAAAATCAACTCTTTTCATTCTCTGTCTTGCTCTCC
 ATTTTAGTTGATCTGATACACCCTTTTGACATCACAATTAACACTTCAAATTAACCA
 GAGTTAGAAAGCCTGTTTCTCCCTACTAAGTTCAACACATCCTGTTTTGCCCATCGA
 GTGAGAAGACCTCCCTGGGATCTCATGGGATTCACGTAGAAAAGAGTACATCACAACCTCC
 AAGTTTTGTTTTGTAGCCCCAGATGGGAGAAATGAAGTGAATACTGAAAACCTATGGC
 CCTN

Restriction Sites:

NotI-NotI

ACCN:

NM_033290

Insert Size:

3570 bp

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).

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_033290.1](#), [NP_150632.1](#)

RefSeq Size: 3117 bp

RefSeq ORF: 2004 bp

Locus ID: 4281

UniProt ID: [O15344](#)

Cytogenetics: Xp22.2

Domains: zf-B_box, RING, BBC, SPRY, FN3

Protein Families: Druggable Genome

Protein Pathways: Ubiquitin mediated proteolysis

Gene Summary: The protein encoded by this gene is a member of the tripartite motif (TRIM) family, also known as the 'RING-B box-coiled coil' (RBCC) subgroup of RING finger proteins. The TRIM motif includes three zinc-binding domains, a RING, a B-box type 1 and a B-box type 2, and a coiled-coil region. This protein forms homodimers which associate with microtubules in the cytoplasm. The protein is likely involved in the formation of multiprotein structures acting as anchor points to microtubules. Mutations in this gene have been associated with the X-linked form of Opitz syndrome, which is characterized by midline abnormalities such as cleft lip, laryngeal cleft, heart defects, hypospadias, and agenesis of the corpus callosum. This gene was also the first example of a gene subject to X inactivation in human while escaping it in mouse. Alternative promoter use, alternative splicing and alternative polyadenylation result in multiple transcript variants that have different tissue specificities. [provided by RefSeq, Dec 2016]

Transcript Variant: This variant (3) has an alternate 5' UTR exon, as compared to variant 1. Variants 1-4 and variant 10 encode the same isoform (1). Expression was found to be adipose specific.