

Product datasheet for **RC231343**

MID1 (NM_033289) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MID1 (NM_033289) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MID1
Synonyms:	BBBG1; FXY; GBBB1; MIDIN; OGS1; OS; OSX; RNF59; TRIM18; XPRF; ZNFX
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC231343 representing NM_033289
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAACACTGGAGTCAGAAGTACCTGCCCATTGTCTGGAGCTCTTTGAGGACCTCTTCTACTGC
 CCTGCGCACACAGCCTCTGCTTCAACTGCGCCACCGCATCCTAGTATCACACTGTGCCACCAACGAGTC
 TGTGGAGTCCATCACCGCCTTCCAGTGCACCCACCTGCCGGCATGTCATCACCCCTAGCCAGCGAGGTCTA
 GACGGGCTCAAGCGCAACGTACCCCTACAGAACATCATCGACAGGTTCCAGAAAGCATCAGTGAGCGGGC
 CCAACTCTCCAGCGAGACCCGTCGGGAGCGGGCCTTTGACGCCAACCCATGACCTCCGCCGAGAAGGT
 CCTCTGCCAGTTTGTGACCAGGATCCTGCCAGGACGCTGTGAAGACCTGTGTCACCTGTGAAGTATCC
 TACTGTGACGAGTGCCTGAAAGCCACTACCCGAATAAGAAGCCCTTTACAGGCCATCGTCTGATTGAGC
 CAATCCGGACTCTCACATCCGGGGCTGATGTGCTTGGAGCATGAGGATGAGAAGCAAACTTAGAGAG
 TAACCTCACCAACCTTATTAAGAGGAACACAGAAGTGGAGACCCTTTGGCTAAACTCATCAAACCTGT
 CAACATGTTGAAGTCAATGCATCACGTCAAGAAGCCAAATGACAGAGGAGTGTGATCTTCTCATTGAGA
 TCATTCAGCAAAGACGACAGATTATTGGAACCAAGATCAAGAAGGGAAGGTGATGAGGCTTCGAAACT
 GGCTCAGCAGATTGCAAACGAGTGCATGAGCGGTGACGATCACTCATCTCCAAAGCGGAACAC
 TCTCTGAAGGAGAATGATCATGCGGTTTCTACAGACTGCTAAGAATATCACCGAGAGAGTCTCCATGG
 CAACTGCATCCTCCAGGTTCTAATTCCTGAAATCAACCTCAATGACACATTTGACACCTTTGCCTTAGA
 TTTTTCCGAGAGAAGAACTGCTAGAATGTCTGGATTACCTTACAGCTCCCAACCCTCCACAATTAGA
 GAAGAGCTCTGCACAGCTTCATATGACACCATCACTGTGATTGGACCTCCGATGATGAGTTCAGCGTGG
 TCTCTACGAGCTCCAGTACACCATATTCACCGACAAGCAACGTCGTTAGTCTGTAATTCGGCTGA
 TAGCTGGATGATAGTACCAACATCAAGCAGAACCCTACACGGTGCACGGTCTGCAGAGCGGCACCAAG
 TACATCTTCATGGTCAAGCCATCAACCAGGCGGCGAGCCGACGAGTGCCTGGGAAGTTGAAGCAA
 ACAGCCAACCATTTAAACTGGATCCCAAATCTGCTCATCGAAAAGTGAAGGTGTCCCATGATAAATTGAC
 AGTAGAACGTGATGAGTCATCATCAAGAAGAGTACACACCTGAACGTTTACCAGCCAGGGGAGCTAT
 GGAGTAGCTGAAATGTGTTTATTGATAGTGGCCGCATTATTGGGAAGTGGTATAAGTGAAGCACAT
 GGTATGCCATTGGTCTTGCTTACAAATCAGCCCCGAAGCATGAATGGATTGGGAAGAACTGCTTCTCTG
 GCGCTCTGCCGCTGCAACAATAACTGGTGGTGGAGACACAATAGCAAGGAAATCCCATGAGCCTGCC
 CCCCACCTCCGGCGCTGGGCATCCTGCTGGACTATGATAACGGCTCTATCGCCTTTTATGATGCTTTGA
 ACTCCATCCACCTCTACACCTTCGACGTGCGATTTGCGCAGCCTTTTGGCCACCTTACCAGTGTGGAA
 CAAGTGTCTGACGATTATCACTGGGCTCCCTATCCAGACCATTGGACTGCACAGAGCAGCTGCCG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC231343 representing NM_033289
 Red=Cloning site Green=Tags(s)

METLESELTPICLELFEFDPDLLPCAHSFCNCAHRILVSHCATNESVESITAFQCPTCRHVITLSQRGL
 DGLKRNVTLQNIIDRFQKASVSGPNPSETRRERAFDANTMTSAEKVLCQFCDQDPAQDAVKTCVTCEVS
 YCDECLKATHPNKPFTHRLIEPIPDSHIRGLMCLHEHEDEKQNLNLSNLNLIKRNTLETLLAKLIQTC
 QHVEVNASRQEAKLTEECDLLIEIIQRRQIIGTKIKEGKVMRLRKLAAQQIANCKQCIERSASLISQAEH
 SLKENDHARFLQTAKNITERVSMATASSQVLIPEINLNDTFDFTALDFSRKLLLECLDYL TAPNPPTIR
 EELCTASYDTITVHWTSDDEF SVVSYELQYITFTGQANVVS LCNSADSWMIVPNIKQNHYTVHGLQSGTK
 YIFMVKAINQAGSRSSPEPKLKTNSQPFLDKPSAHRKLVSHDNLTVRDESSSKSHTPERFSTSQGSY
 GVAGNVFIDSGRHYWEVVISGSTWYAI GLAYKSAPKHEWIGKNSASWALCRCNNNWWVRHNSKEIPIEPA
 PHLRRVGIILLDYDNGSIAFYDALNSIHL YTFDVAFAQPVCPTFTVWNKCLTIITGLPIPDHLDCTEQLP

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8070_e04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_033289

ORF Size: 1887 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_033289.2](#)

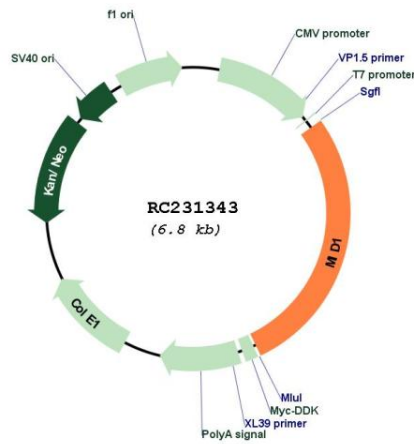
RefSeq ORF: 1890 bp

Locus ID: 4281

Cytogenetics: Xp22.2
Protein Families: Druggable Genome
Protein Pathways: Ubiquitin mediated proteolysis
MW: 71.3 kDa

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]

Product images:



Circular map for RC231343