

## Product datasheet for **RG234677**

### **MID1 (NM\_001193277) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	MID1 (NM_001193277) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MID1
Synonyms:	BBBG1; FXY; GBBB1; MIDIN; OGS1; OS; OSX; RNF59; TRIM18; XPRF; ZNFXY
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide  
Sequence:

>RG234677 representing NM\_001193277  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGAACACTGGAGTCAGAAGTACCTGACCTGCCCATTGTCTGGAGCTCTTTGAGGACCTCTTCTACTGC  
CCTGCGCACACAGCCTCTGCTTCAACTGCGCCACCGCATCCTAGTATCACACTGTGCCACCAACGAGTC  
TGTGGAGTCCATCACCGCCTTCCAGTGCACCCACCTGCCGGCATGTCATCACCCCTCAGCCAGCGAGGTCTA  
GACGGGCTCAAGCGCAACGTCACCCACAGAACATCATCGACAGGTTCCAGAAAGCATCAGTGAGCGGGC  
CCAACCTCTCCAGCGAGACCCGTCGGGAGCGGGCCTTTGACGCCAACACCATGACCTCCGCCGAGAAGGT  
CCTCTGCCAGTTTTGTGACCAGGATCCTGCCAGGACGCTGTGAAGACCTGTGTCACCTGTGAAGTATCC  
TACTGTGACGAGTGCCTGAAAGCCACTCACCCGAATAAGAAGCCCTTTACAGGCCATCGTCTGATTGAGC  
CAATCCGGACTCTCACATCCGGGGCTGATGTGCTTGGAGCATGAGGATGAGAAGTGAATATGTACTG  
TGTGACCGATGACCAGTTAATCTGTGCCTTGTGTAAGTGGTGGGCGGCACCGCATCATCAGGTGGCA  
GCTTTGAGTGAGCGCTATGACAAATTGAAGCAAACTTAGAGAGTAACCTCACCAACCTTATTAAGAGGA  
ACACAGAACTGGAGACCTTTTGGCTAAACTCATCCAAACCTGTCAACATGTTGAAGTCAATGCATCACG  
TCAAGAAGCCAAATTGACAGAGGAGTGTGATCTTCTCATTGAGATCATTAGCAAAAGACGACAGATTATT  
GGAACCAAGATCAAAGAAGGGAAGGTGATGAGGCTTCGAAAACCTGGCTCAGCAGATTGCAAACTGCAAAAC  
AGTGCATTGAGCGGTGAGCATCACTCATCTCCAAAGCGGAACTCTCTGAAGGAGAATGATCATGCGCG  
TTTCTACAGACTGCTAAGAATATCACCGAGAGTCTCCATGGCAACTGCATCCTCCAGGTTCTAATT  
CCTGAAATCAACCTCAATGACACATTTGACACCTTTGCCTTAGATTTTCCCGAGAGAAGAACTGCTAG  
AATGCTGGATTACCTTACAGCTCCCAACCTCCACAATTAGAGAAGAGCTCTGCACAGTTCATATGA  
CACCATCACTGTGATTGGACCTCCGATGATGAGTTCAGCGTGGTCTCCTACGAGCTCCAGTACACCATA  
TTCACCGACAAGCCAACGTCGTTAGTCTGTGTAATTCGGCTGATAGCTGGATGATAGTACCCAACATCA  
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CCAGGGCGGCAGCCGAGCAGTGAAGTGGGAAGTTGAAGACAAACAGCCAACCATTTAAACTGGATCCC  
AAATCTGCTCATCGAAAACCTGAAGGTGTCCATGATAACTTGACAGTAGAACGTGATGAGTCATCATCCA  
AGAAGAGTCACACACCTGAACGCTTCACCAGCCAGGGGAGCTATGGAGTAGCTGGAAATGTGTTTATTGA  
TAGTGGCCGGCATTATTGGGAAGTGGTCATAAGTGAAGCACATGGTATGCCATTGGTCTTGCTTACAAA  
TCAGCCCCGAAGCATGAATGGATTGGGAAGAACTGCTTCTGGGCGCTCTGCCGCTGCAACAATAACT  
GGTGGTGGAGACACAATAGCAAGGAAATCCCATTTGAGCCTGCCCCACCTCCGGCGCGTGGGCATCCT  
GCTGGACTATGATAACGGCTCTATCGCCTTTTATGATGCTTTGAACTCCATCCACCTCTACACCTTCGAC  
GTCGCATTTGCGCAGCCTGTTTGGCCACCTTCACCGTGTGGAACAAGTGTCTGACGATTATCACTGGGC  
TCCCTATCCCAGACCATTTGGACTGCACAGAGCAGCTGCCG

**ACGCGT**ACGCGGGCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG234677 representing NM\_001193277  
 Red=Cloning site Green=Tags(s)

METLESELTCPICLELFEDPLLLPCAHSLCFNCAHRILVSHCATNESVESITAFQCPTCRHVITLSQRGL  
 DGLKRNVTLQNIIDRFQKASVSGPNPSETRRERAFDANTMTSAEKVLCQFCDQDPAQDAVKTCVTCEVS  
 YCDECLKATHPNKKPFTGHRLIEPIPDSHIRGLMCLHEHEKVNMYCVTDDQLICALCKLVGRHRDHQVA  
 ALSERYDKLKQNLNSLNLIKRNTLETLLAKLIQTCQHVEVNASRQEAKLTEECDLLIEIIQRRQII  
 GTKIKEGKVMRLRKLAAQIQIANCKQCIERSASLISQAEHSLKENDHARFLQTAKNITERVSMATASSQVLI  
 PEINLNDTFDFALDFSREKLLLECLDYLTAPNPPTIREELCTASYDTITVHWTSDDEFVSVSYELQYTI  
 FTGQANVVSLCNSADSWMIVPNIKQNHYTVHGLQSGTKYIFMVKAINQAGRSSEPGKLTNSQPFLDP  
 KSAHRKLVSHDNLTVRDESSKKSHTPERFTSQGSYGVAGNVFIDSGRHYWEVVISGSTWYAIGLAYK  
 SAPKHEWIGKNSASWALCRCNNWVVRHNSKEIPIEPAPHLRRVGILLDYDNGSIAFYDALNSIHLTYFD  
 VAFAQVPCPTFTVWNKCLTIITGLPIPDLDCTEQLP

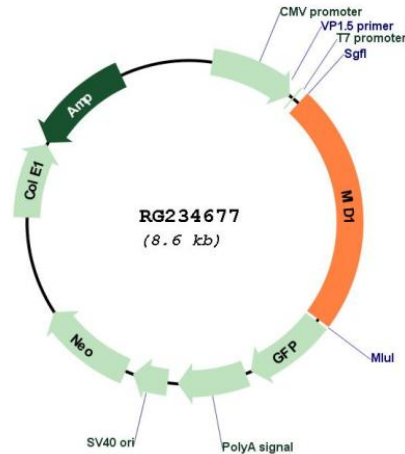
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



**Plasmid Map:**


**ACCN:** NM\_001193277

**ORF Size:** 2001 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\\_001193277.1](#), [NP\\_001180206.1](#)

RefSeq Size: 6252 bp

RefSeq ORF: 2004 bp

Locus ID: 4281

UniProt ID: [O15344](#)

Cytogenetics: Xp22.2

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]