

Product datasheet for **MG204456**

Rnf126 (NM_144528) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rnf126 (NM_144528) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Rnf126
Synonyms:	2610010019Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204456 representing NM_144528 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCGAGGCGTCGCCGAGCCCGGACGGTACTTCTGCCACTGCTGCTCGGTAGAGATCGTGCCGCGCC
TGCCGGATTACATCTGCCAAGGTGCGAGTCTGGCTTCATTGAGGAGCTTCCAGAAGAGACCAGGAACAC
AGAGAAATGGCTCAGCCCCCTCCACAGCCCCACCGACCAGAACCAGGAGCCATTTGAGAATGTGGACCAG
CACCTGTTACGCTGCCACAGGGATACAGCCAGTTTGCCTTTGGCATCTTCGACGATAGCTTTGAGATTC
CCACGTTCCCTCCTGGAGCCAGGCCGATGATGGCAGGGACCCTGAGAGCCGACGGGAGAGAGACCA
GTCTCGGCATCGGTACGGGGCCCGCAGCCCCGTGCCCGCTCACTGCCCGCCGGCCACTGGCCGGCAT
GAAGGTGTCCCTACGCTGGAAGGGATCATCCAGCAGCTCGTGAATGGCATCATCTCTCCGCTGCTGTGC
CCAGCCTGGGCCCTTGGTCCCTGGGGCGTCTGCACTCGAACCCAATGGACTACGCTGGGGGGCCAAACGG
CCTGGACACCATCATCACGCAGCTCCTCAATCAGTTTGAAGAACCCGGCCCCCACTGCAGACAAGGAG
AAGATTCAGGCTCTCCACGGTCCCAGTCACAGAGGAACACGTGGGCTCAGGGCTTGGTGGCCAGTGT
GTAAGAAGACTATGCACTGGGTGAGAGTGTGCGGCAGTTGCCCTGCAACCACCTGTTCCACGACAGCTG
CATCGTCCCTGGCTGGAGCAGCATGACAGCTGCCCGTCTGCCGTAAGAGCCTCACTGGACAGAACACA
GCCACCAATCCCCAGGCTTGACCGGTGAGGTTTCTCCTCGTCTCCTCATCTCCTCCAGCTCGC
CCAGCAATGAGAACGCCACAAGCAACTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >MG204456 representing NM_144528
 Red=Cloning site Green=Tags(s)

```
MAEASPQPGRYFCHCCSVEIVPRLPDYICPRCESGFIEELPEETRNTENGSA PSTAPT DQNRQPFENV DQ
HLFTLPQGY SQFAFGIFDD SFEIPTFP PQAQADDGRDPESRREREHQSRHRYGARQPRARLTARRATGRH
EGVPTLEGIIQQLVNGIISPAAVPSLGLGPWGLVLSNPMDYAWGANGLDTIITQLLNQFENTGPPPADKE
KIQALPTVPVTEEHVGSGLCEPVCKEDYALGESV RQLPCNHLFHDSCIVPWLEQHDSCPVCRKSLTGQNT
ATNPPGLTGVGFSSSSSSSSSSSPSNENATSNS
```

TRTRPLE - GFP Tag - V

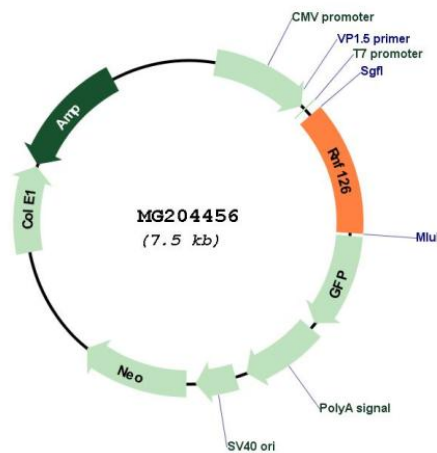
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_144528

ORF Size: 939 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_144528.3
RefSeq Size:	1619 bp
RefSeq ORF:	942 bp
Locus ID:	70294
UniProt ID:	Q91YL2
Cytogenetics:	10 C1
Gene Summary:	E3 ubiquitin-protein ligase that mediates ubiquitination of target proteins (By similarity). Depending on the associated E2 ligase, mediates 'Lys-48'- and 'Lys-63'-linked polyubiquitination of substrates (PubMed:23418353). Part of a BAG6-dependent quality control process ensuring that proteins of the secretory pathway that are mislocalized to the cytosol are degraded by the proteasome (By similarity). Probably acts by providing the ubiquitin ligase activity associated with the BAG6 complex and be responsible for ubiquitination of the hydrophobic mislocalized proteins and their targeting to the proteasome (By similarity). May also play a role in the endosomal recycling of IGF2R, the cation-independent mannose-6-phosphate receptor (By similarity). May play a role in the endosomal sorting and degradation of several membrane receptors including EGFR, FLT3, MET and CXCR4, by mediating their ubiquitination (PubMed:23418353). By ubiquitinating CDKN1A/p21 and targeting it for degradation, may also promote cell proliferation (By similarity). May monoubiquitinate AICDA (By similarity).[UniProtKB/Swiss-Prot Function]