

## Product datasheet for MR204456

### Rnf126 (NM\_144528) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Rnf126 (NM_144528) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rnf126
Synonyms:	2610010019Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204456 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCGAGGCGTCGCCGACGCCGGACGGTACTTCTGCCACTGCTCGGTAGAGATCGTGCCGCGCC  
TGCCGGATTACATCTGCCAAGGTGCGAGTCTGGCTTCATTGAGGAGCTTCCAGAAGAGACCAGGAACAC  
AGAGAAATGGCTCAGCCCCCTCCACAGCCCCACCAGCAGAACCCGGCAGCCATTTGAGAATGTGGACCAG  
CACCTGTTACGCTGCCACAGGGATACAGCCAGTTTGCCTTTGGCATCTTCGACGATAGCTTTGAGATTC  
CCACGTTCCCTCCTGGAGCCCAGGCCGATGATGGCAGGGACCCTGAGAGCCGACGGGAGAGAGACCA  
GTCTCGGCATCGGTACGGGGCCCGCAGCCCCGTGCCCGCTCACTGCCCGCCGGCCACTGGCCGGCAT  
GAAGGTGTCCCTACGCTGGAAGGGATCATCCAGCAGCTCGTGAATGGCATCATCTCTCCGCTGCTGTGC  
CCAGCCTGGGCCCTTGGTCCCTGGGGCGTCTGCACTCGAACCCAAATGGACTACGCCTGGGGGGCCAAACGG  
CCTGGACACCATCATCACGCAGCTCCTCAATCAGTTTGAAGAACCCGGCCCCCACTGCAGACAAGGAG  
AAGATTCAGGCTCTCCACGGTCCCAGTCACAGAGGAACACGTGGGCTCAGGGCTTGAAGTCCAGTGT  
GTAAGAAGACTATGCACTGGGTGAGAGTGTGCGGCAGTTGCCCTGCAACCACCTGTTCCACGACAGCTG  
CATCGTCCCTGGCTGGAGCAGCATGACAGCTGCCCGTCTGCCGTAAGAGCCTCACTGGACAGAACACA  
GCCACCAATCCCCAGGCTTGACCGGTAGGTTTCTCCTCGTCTCCTCATCTCCTCCAGCTCGC  
CCAGCAATGAGAACGCCACAAGCAACTCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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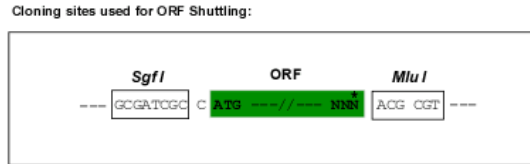
**Protein Sequence:** >MR204456 protein sequence  
Red=Cloning site Green=Tags(s)

MAEASPQPGRYFCHCCSVEIVPRLPDYICPRCESGFIEELPEETRNTENGSA PSTAPT DQNRQPFENV DQ  
 HLF TLPQGY SQFAFGIFDD SFEIPTFP PQAQADDGRDPESRREREHQSRHRYGARQPRARLTARRATGRH  
 EGVPTLEGIIQQLVNGIISPAAVPSLGLGPWGLVLSNPMDYAWGANGLDTIITQLLNQFENTGPPPADKE  
 KIQALPTVPVTEEHVGSGLCEPVCKEDYALGESVRQLPCNHLFHDSCIVPWLEQHDSCPVCRKSLTGQNT  
 ATNPPGLTGVGFSSSSSSSSSSSPSNENATSNS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_144528

**ORF Size:** 942 bp

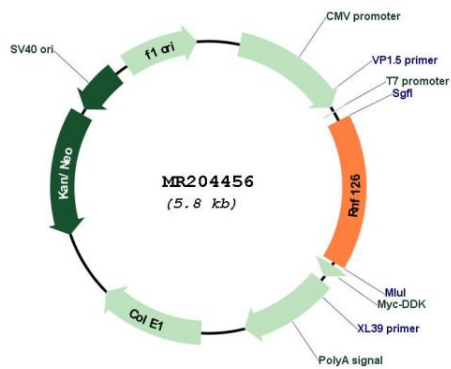
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_144528.3</a>
<b>RefSeq Size:</b>	1639 bp
<b>RefSeq ORF:</b>	942 bp
<b>Locus ID:</b>	70294
<b>UniProt ID:</b>	<a href="#">Q91YL2</a>
<b>Cytogenetics:</b>	10 C1
<b>MW:</b>	34.1 kDa
<b>Gene Summary:</b>	<p>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]</p>

Product images:



Circular map for MR204456