

## Product datasheet for **MG206827**

### Rnf128 (NM\_023270) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Rnf128 (NM\_023270) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Rnf128  
**Synonyms:** 1300002C13Rik; AI987883; GRAIL; Greul1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG206827 representing NM\_023270  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGGGCCCGCCCGGGATCGGGTCTACTGCCCGGGCGGTGCGGAGCTGCCCGGCTACTGGCTTGGT  
 GCTTCCTTCTGGCTCTGAGTCCGCACGCGCCCGTTCCCGGGAGCCGAAGCCGTGTGGACCGGTACCT  
 CAACGTGTCTGGCGGGTCCGCACACCGGAGTGAACCGCACGGTGTGGAGCTGAGCGAGGAGGGCGTG  
 TACGGCCAGGACTCGCCGCTGGAGCCCGTCTCCGGGTCTGGTACCGCCGACGGGCCCGGGCGCTCA  
 ACGCCTGTAACCCGCACACCAATTTACGGTGCCACGGTTTGGGGAGCACGGTCAAGTATCTTGGTT  
 GGCCCTCATCAAACGCGGTGGAGGCTGCACCTTCGCGGACAAGATCCATCTGGCTTCCAGAGAGGGGCT  
 TCTGGAGCGGTCACTTTAACTTCCCTGGGACCCGCAATGAGGTCACTCCCATGTCTCACCCGGGTGCTG  
 GGGACATTGTTGCAATCATGATTGGCAATCTGAAAGGAACAAAAATCTGCAGTCTATTCAAAGAGGCAT  
 CCAAGTCACAATGGTCATCGAAGTAGGGAAAAACATGGCCCTTGGGTGAATCATTATTCAATTTTCTTC  
 GTTTCTGTGTCCTTTTTCATAATTACGGCAGCAACCGTGGGCTATTTTCATCTTTTATTCTGCTCGAAGAT  
 TACGAAATGCAAGAGCTCAAAGCAGGAAGCAGAGGCAGTTAAAGGCAGATGCTAAAAAGCTATTGGAAA  
 GCTTCAGCTGCGCACCTTGAAACAAGGAGACAAGGAAATGGCCCTGATGGAGATAGCTGTGCTGTGTGC  
 ATTGAGCTCTATAAGCCAAATGATTTGGTGCATCCTAACCTGCAATCATATTTCCATAAGACATGTG  
 TGGACCGTGGCTTTTAGAACACAGGACTTGCCCATGTGCAAGTGTGACATTCTCAAAGCTCTGGGAAT  
 TGAGGTGGATGTTGAAGATGGATCAGTGTCTTTACAAGTCTCTGTTTCTAATGAAGCATCTAATACTGCC  
 TCTCCCATGAAGAGGACAGTCGAGTGCATCATCTGGATATGCTTCAAGTACAAGGAGCAGATG  
 AGCCACCTCTGGAGGAACATGCGCAGTCAGCAAATGAAAATCTACAGCTGGTAAACCATGAAGCAAATTC  
 TGTGGCCGTGGATGTTGTTCCCATGTTGACAACCCAACTTTGAAGAAGATGAAACTCTGATCAAGAG  
 GCAGCTGTTCCGGAGATTAATCT

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >MG206827 representing NM\_023270  
Red=Cloning site Green=Tags(s)

MGPPPGIGVYCRGGCGAARLLAWCFLLALSPHAPGSRGAEAVWTA YLNVSWRVPHTGVNRTVWELSEEGV  
 YGQDSPLEPVSGLVPPDGPALNACNPHTNFTVPTVWGSTVQVSWLALIQRGGGCTFADKIHLSERGA  
 SGAVIFNFPGTRNEVIPMSHPGAGDIVAIMIGNLKGTKILQSIQRGIQVTMVEIVGKKHGPWVNHYSIFF  
 VSVSFFIITAATVGYFIFYSARRLRNARAQSRKQRQLKADAKKAI GKLQLRTLKQGDKEIGPDGDSCAVC  
 IELYKPNDLVRILT CNHIFHKTCVDPWLL EHRTPMCKCDILKALGIEVDVEDGSVSLQVPVSNEASNTA  
 SPHEEDSRSETASSGYASVQGADEPPLEEAQSANENLQLVNHEANSVAVDVVPVHDNPTFEEDETPDQE  
 AAVREIKS

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_023270

**ORF Size:** 1284 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\\_023270.5](#), [NP\\_075759.3](#)

**RefSeq Size:** 2764 bp

**RefSeq ORF:** 1287 bp

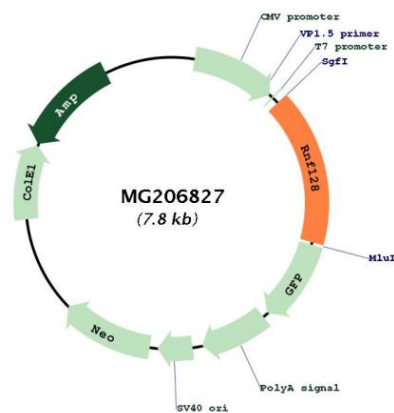
**Locus ID:** 66889

**UniProt ID:** [Q9D304](#)

**Cytogenetics:** X F1

**Gene Summary:** E3 ubiquitin-protein ligase that catalyzes 'Lys-48'- and 'Lys-63'-linked polyubiquitin chains formation. Functions as an inhibitor of cytokine gene transcription. Inhibits IL2 and IL4 transcription, thereby playing an important role in the induction of the anergic phenotype, a long-term stable state of T-lymphocyte unresponsiveness to antigenic stimulation associated with the blockade of interleukin production. Ubiquitinates ARPC5 with 'Lys-48' linkages and COR1A with 'Lys-63' linkages leading to their degradation, down-regulation of these cytoskeletal components results in impaired lamellipodium formation and reduced accumulation of F-actin at the immunological synapse. Functions in the patterning of the dorsal ectoderm; sensitizes ectoderm to respond to neural-inducing signals (By similarity). [UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for MG206827