

## Product datasheet for MR229716

### Rnf128 (NM\_001254761) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Rnf128 (NM_001254761) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rnf128
Synonyms:	1300002C13Rik; AI987883; GRAIL; Greul1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR229716 representing NM_001254761 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGAATCGGAAGACTAACACAGTTTTCTCAGCTCCTGGTATTTTTACCTTTTACTGCAAAGTACAG  
CATCGTTTTCAATGAACGCCTATGTGACTGTGACTTACTCAACGAAAGCAGCACTACACCAAGACTGA  
AAGGTGTGAGTGGGTGTCTATGGATTAGTCTCACTGGTTGCTAACGCTATGGGAGTGGTGGTATCCCT  
AAGAACGGTAACACCAAGCTTGTGATTACAACACTGAGTTTACCAACACTGCTAAGCCTTGGATTGCGC  
TGATAGAAAAGAGGTAATTGCACATTTTCTGAAAAAATTCAAACAGCAAGCAGAAGTAATGCCAATGCTGT  
TGTGATTACAATTTCCAGAGACGGGCAACCAGACGATACAGATGGCAAATTTTGGTGTGGGGACATT  
GTTGCAATCATGATTGGCAATCTGAAAGGAACAAAAATTCGAGTCTATTCAAAGAGGCATCCAAGTCA  
CAATGGTCATCGAAGTAGGAAAAAATGAGCCCTTGGGTGAATCATTATTCAATTTTCTCGTTTCTGT  
GTCCTTTTTCATAATTACGGCAGCAACCGTGGGCTATTTTCATCTTTTATTCTGCTCGAAGATTACGAAAT  
GCAAGAGCTCAAAGCAGGAAGCAGAGGCAGTTAAAGGCAGATGCTAAAAAGCTATTGAAAAGCTTCAGC  
TGCGCACCTTGAACAAGGAGACAAGGAAATGGCCCTGATGGAGATAGCTGTGCTGTGATTGAGT  
CTATAAGCCAAATGATTTGGTGCATCCTAACCTGCAATCATATTTCCATAAGACATGTGTGGACCCG  
TGGCTTTTAGAACACAGGACTTGCCCATGTGCAAGTGTGACATTCTCAAAGCTCTGGAATTGAGGTGG  
ATGTTGAAGATGGATCAGTGTCTTTACAAGTTCCTGTTTCTAATGAAGCATCTAATACTGCCTCTCCCA  
TGAAGAGGACAGTCGAGTGCAGTGCATCATCTGGATATGCTTCAGTACAAGGAGCAGATGAGCCACCT  
CTGGAGGAACATGCGCAGTCAGCAAATGAAAATCTACAGCTGGTAAACCATGAAGCAAATCTGTGGCCG  
TGGATGTTGTTCCCATGTTGACAACCAACCTTTGAAGAAGTAAACTCCTGATCAAGAGGCAGCTGT  
TCGGGAGATTAATCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR229716 representing NM\_001254761  
 Red=Cloning site Green=Tags(s)

MNRKTKHSFLQLLVFFTFLLQSTASFSMNAYVTVTYFNESSNYTKTERCECGVYGLVSLVANAMGVVGI  
 KNGNYQACDYNTFTNTAKPWIALIERGNCTFSEKIQTASRSNANAVVIYNSPETGNQTIQMANFGAGDI  
 VAIMIGNLKGTKILQSIQRGIQVTMVIEWGKKHGPWVNHYSIFFVSVSFFIITAATVGYFIFYSARRLRN  
 ARAQSRKQRQLKADAKKAIGKLQLRTLKQGDKEIGPDGDSCAVCIELYKPNDLVRILTCNHIFHKTCVDP  
 WLLRHRTCPMCKDILKALGIEVDVEDGSVSLQVPSNEASNTASPHEEDSRSETASSGYASVQGADEPP  
 LEEHAQSANENLQLVNHEANSVAVDVVPHVDNPTFEEDETPDQEAAREIKS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

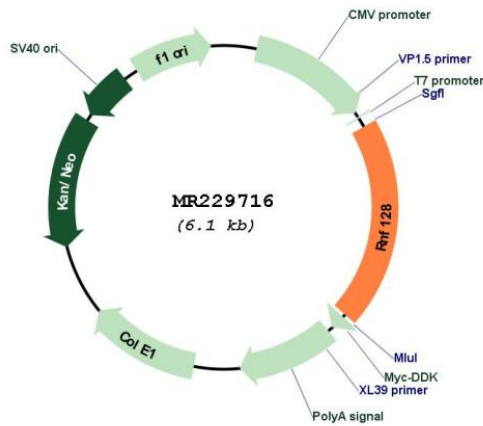
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001254761

<b>ORF Size:</b>	1206 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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_001254761.1</a> , <a href="#">NP_001241690.1</a>
<b>RefSeq Size:</b>	2638 bp
<b>RefSeq ORF:</b>	1209 bp
<b>Locus ID:</b>	66889
<b>UniProt ID:</b>	<a href="#">Q9D304</a>
<b>Cytogenetics:</b>	X F1
<b>MW:</b>	44.8 kDa
<b>Gene Summary:</b>	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]