

Product datasheet for **RG239078**

Pericentrin 1 (NUP85) (NM_001303276) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pericentrin 1 (NUP85) (NM_001303276) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pericentrin 1
Synonyms:	FROUNT; NPHS17; Nup75
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG239078 representing NM_001303276.
 Blue=ORF Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAAATTTTGAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
 GATCCGGTACCGAGGAGATCTGCCGCCACGATCGCC
 ATGGTGCCAAGTTGCCCTTTATCTATATCATCCGTAAGGATGTAGATGTTTACTCTCAATCTTGAGA
 AAACCTTCAATGAATCCCATGGAATCTTCTGGGCCTCCAGAGAATTGACGAAGAGTTGACTGGAAAA
 TCCAGAAAATCTCAATTGGTTCGAGTGAGTAAAAACTACCGATCAGTCATCAGAGCATGTATGGAGGAA
 ATGCACCAAGTTGCAATTGCTGTAAAGATCCAGCCAATGGCCGCCAGTTGAGCAGCCAGGTCTCCATT
 TTGTGAGCAATGGAGCTCATCTGGAACCTGTGTGAGATTCTTTTTATTGAAGTGGCCCCAGCTGGCCCT
 CTCCTCTCCATCTCTTGACTGGGTCCGGCTCCATGTGTGCGAGGTGGACAGTTTGTGCGCAGATGTT
 CTGGGCAGTGAGAATCCAAGCAAACATGACAGCTTCTGGAACCTGGTGACCATCTTGGTGTGACGGGC
 CGGCTGGATGAGGCCGACAGATGCTCTCAAGGAAGCCGATGCCAGCCCCGCTCTGCAGGCATATGC
 CGAATCATGGGGACCTGATGAGGACAATGCCATTCTTAGTCCCGGGAACCCAGACACTGACAGAG
 CTGGAGCTGAAGTGGCAGCACTGGCAGGGAATGTGAGCGGTACCTCCAGGACAGCACATTCGCCACC
 AGCCCTCACCTGGAGTCTCTCTGAAGATTATGCTGGGAGACGAAGCTGCCTTGTTAGAGCAGAAGGAA
 CTTCTGAGTAATTGGTATCATTTCTAGTGACTCGGCTCTTGTACTCCAATCCCACAGTAAACCCATT
 GATCTGCACTACTATGCCAGTCCAGCCTGGACCTGTTTCTGGGAGGTGAGAGCAGCCAGAACCCCTG
 GACAACATCTTGTGGCAGCCTTGTAGTTTGTGATCCATCAAGTAATCAAAGAGTGCAGCATCGCCCTG
 AGCAACTGGTGGTTTGTGGCCACCTGACAGACCTGTGGACCACTGCAAGCTCTCCAGTCACACAAC
 CTCTATTTCCGTTTCAACATGAGAGAGTTCTCTGCTGGAGTACGCCTCGGGAGTGTGCTCATCCC
 AGCCTGTGGCAGCTGGGGTTCGATTACTTTGATTACTGCCCGAGCTGGGCCGAGTCTCCCTGGAGCTG
 CACATTGAGCGGATACCTCTGAACACCGAGCAGAAAGCCCTGAAGGTGCTGCGGATCTGTGAGCAGCGG
 CAGATGACTGAACAAGTTCGAGCATTTGTAAAGTCTTAGCCATGAAAGCCGTCGCCAACCAATCGCCTG
 GGTCTGCCCTCTCTTGAGCATCCGTGCTAAGGATGCCGCTTTGCCACGCTCGTGTGAGCAGGTTTCT
 CTCAGGGATTACTGTGAGCGAGGCTGCTTTTCTGATTGGATCTCATTGACAACCTGGGGCCAGCCATG
 ATGCTCAGTGACCGACTGACATTCCTGGGAAAGTATCGCGAGTCCACCGTATGTACGGGAGAAGCGT
 TTTGCCGACGAGCTTCTCTCTTCTGCTTGTGATGACGTCTCGGATTGCCCTCGGTCTTTCTGGATG
 ACTCTGCTGACAGAGCCTTGGCCCTTTTGAACAGAAACAGGTATTTTCTCAGCAGAACAGACTTAT
 GAGTTGATGCGGTGTCTGGAGACTTGACGTCAAGAAGACCTGTGCATGGAGAATCTGATACCGAGCAG
 CTCCAGGATGATGACATAGAGACCACCAAGGTGGAATGCTGAGACTTTCTCTGGCACGAAATCTTGCT
 CGGGCAATTATAAGAGAAGGCTCACTGGAAGGTTCC
 AC~~CGGT~~ACGCGGCCGCTCGAG – GFP Tag – GTTTAAAC

Protein Sequence:

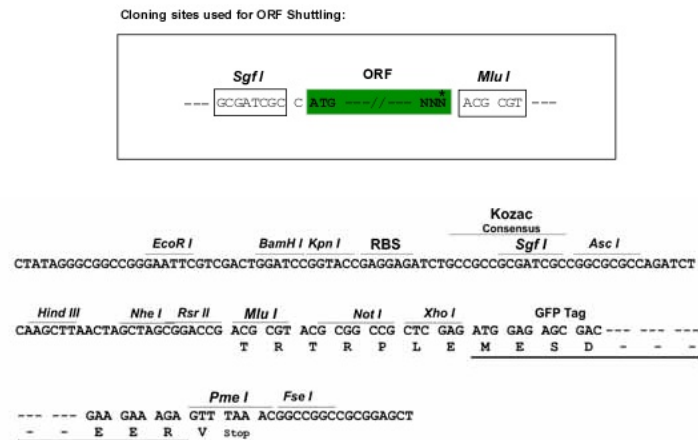
>Peptide sequence encoded by RG239078
 Blue=ORF Red=Cloning site Green=Tag(s)

MVPSCPFYIIRKDVVYSQILRKLFNESHGIFLGLQRIDEELTGKSRKSQLVRVSKNYRSVIRACMEE
 MHQVAIAAKDPANGRQFSSQVSILSAMELIWNLCILFIEVAPAGPLLLHLLDWVRLHVCEVDSLADV
 LGSENPSKHDSFWNLVTILVLQGRLEARQMLSKEADASPASAGICRIMGDLMRTPILSPGNTQTLTE
 LELKWQHWHEECERYLQDSTFATSPHLESLLKIMLGDEAALLEQKELLSNWHFLVTRLLYSNPTVKPI
 DLHYAQSSDLFLGGESSPEPLDNILLAAFEFDIHQVIKECSIALSNWWFVAHLDLLDHCKLLQSHN
 LYFGSNMREFLLLEYASGLFAHPSLWQLGVDYFDYCPGLGRVSLHIERIPLNTEQKALKVLRICEQR
 QMTEQVRSICKILAMKAVRNNRLGSALWSIRAKDAAFATLVSDRFLRDYCEGCFSDLDLIDNLGPAM
 MLDRLTFLGKYREFHRMYGEKRFADAASLLLSLMTSRIAPRSFWMTLTALPLLEQKQVIFSAEQTY
 ELMRCLEDLTSRRPVHGESDTEQLQDDDIETTKVEMLRLSLARNLARAIIREGSLEGS
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNTAVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSDHMFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001303276

ORF Size: 1857 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).

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001303276.1](#), [NP_001290205.1](#)

RefSeq Size: 2285 bp

RefSeq ORF: 1833 bp

Locus ID: 79902

UniProt ID: [Q9BW27](#)

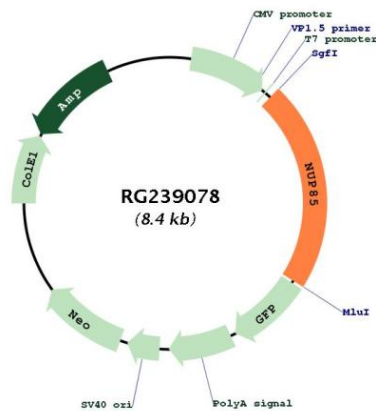
Cytogenetics: 17q25.1

MW: 70.2 kDa

Gene Summary:

This gene encodes a protein component of the Nup107-160 subunit of the nuclear pore complex. Nuclear pore complexes are embedded in the nuclear envelope and promote bidirectional transport of macromolecules between the cytoplasm and nucleus. The encoded protein can also bind to the C-terminus of chemokine (C-C motif) receptor 2 (CCR2) and promote chemotaxis of monocytes, thereby participating in the inflammatory response. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2014]

Product images:



Circular map for RG239078