

Product datasheet for RC203224

RNF166 (NM 178841) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: RNF166 (NM_178841) Human Tagged ORF Clone

Tag:Myc-DDKSymbol:RNF166

Mammalian Cell Neomycin

Selection:

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

ORF Nucleotide >RC203224 ORF sequence

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC203224 protein sequence

Red=Cloning site Green=Tags(s)

MAMFRSLVASAQQRQPPAGFAGGDSGLEAQYTCPICLEVYHRPVAIGSCGHTFCGECLQPCLQVPSPLCP LCRLPFDPKKVDKATHVEKQLSSYKAPCRGCNKKVTLAKMRVHISSCLKVQEQMANCPKFVPVVPTSQPI PSNIPNRSTFACPYCGARNLDQQELVKHCVESHRSDPNRVVCPICSAMPWGDPSYKSANFLQHLLHRHKF SYDTFVDYSIDEEAAFQAALALSLSEN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6434 e10.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:



CTATAGGGCGGCCG	EcoR GAATT	_	GACT	Bami GGAT		RB		CTGC	Co		us f	c c 🏿	YTG -		
ORF		MNN	ACG T	llu I GCT R	ACC T	ot/ G CCC P	_	Tho I	CAG Q	AAA K	-	Tag ATC	TCA S	GAA E	GAG E
GAT CTG GCA GC	a aat n	Ecc GAT D	ATC	CTG L	GAT D	Flag.1 AAG K	-	GAC D	GAC D	GAT D	AAG K	_	TAA stop		se I COGGO

^{*} The last codon before the Stop codon of the ORF

ACCN: NM_178841

ORF Size: 711 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: <u>NM 178841.2, NP 849163.1</u>

 RefSeq Size:
 1888 bp

 RefSeq ORF:
 714 bp

 Locus ID:
 115992

 UniProt ID:
 Q96A37

Cytogenetics: 16q24.2-q24.3

Protein Families: Druggable Genome

MW: 26.1 kDa

Gene Summary: E3 ubiquitin-protein ligase that promotes the ubiquitination of different substrates

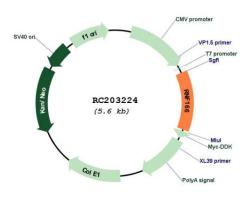
(PubMed:27880896). In turn, participates in different biological processes including interferon

production or autophagy (PubMed:26456228, PubMed:27880896). Plays a role in the activation of RNA virus-induced interferon-beta production by promoting the ubiquitination

of TRAF3 and TRAF6 (PubMed:26456228). Plays also a role in the early recruitment of autophagy adapters to bacteria (PubMed:27880896). Mediates 'Lys-29' and 'Lys-33'-linked ubiquitination of SQSTM1 leading to xenophagic targeting of bacteria and inhibition of their

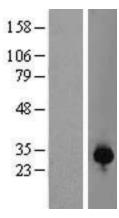
replication (PubMed:27880896).[UniProtKB/Swiss-Prot Function]

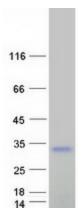
Product images:



Circular map for RC203224







Western blot validation of overexpression lysate (Cat# [LY405857]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203224 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

Coomassie blue staining of purified RNF166 protein (Cat# [TP303224]). The protein was produced from HEK293T cells transfected with RNF166 cDNA clone (Cat# RC203224) using MegaTran 2.0 (Cat# [TT210002]).