

Product datasheet for **RC204259**

C3orf54 (FAM212A) (NM_203370) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C3orf54 (FAM212A) (NM_203370) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	C3orf54
Synonyms:	C3orf54; FAM212A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC204259 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACATGCACAGCGCTCGGCTTGACAGCTTCCTTAGCCAGCTCCGCTGGGAAGTGTGTGGTGGG
ACACAGGCTCACCTCAATGCCTGGTCCCCTGCAGCCAACCTCCCAAAGTGGCCAGATGTGCAGCCAG
CCACCAGCTTAGGGCTCGGGTGCCTTGAAGAGGACTCAGTCTGCTGTGTGGAGGAGGAGGAAGAGGAG
GAGGAGGAAGCAGTGGTACAGAAGACAGGGATGCAGCCTTGGGAGGCCCCAGGGAGCATGCCCTGGACT
GGGACTCTGGCTTCTCGGAGGTGTCAGGCAGCACATGGCGAGAGGAAGAAGTGCCTGTATCCAGCGCCC
AGCACCTCAGCAGGCCCTTCGTAGGCAGTGCCTCTCAGTCAGTGGCTCCCATGCCAGCAGGGCC
CCTGTAGCCAGTGTACCACCTGTCCACCATCCACGGCCCAAGTCCACCCAGACGCTGCCTGGAGCACT
GGCAGGGACTGGAAGCAGAGGACTGGACAGCAGCCCTACTGAACAGGGGTGCGAGTCGCCAGCCCCTGGT
ACTAGGGGACAATTGCTTTGCTGACTTGGTGCACAACCTGGATGGAGTGCCTGAGACAGGGAGTGAAGGG
GGTACGGAGGTGGGCACCGTGCCCGTGCCTGGCCCCCTCAGTTCCTGCTTGGCCTCTCTGAGCAGCTTC
GGCGCCGCTGGCCAGGGCTCGGCGGACAGCTATGGCAGGAAAGCGGCTGTCATGCCACCTCGCCAGA
ACCTGAAGTGCCTGCGGATGCTCACGCTTTCAGCTCTCATGAGCTGTGTCGATGCCGCCAGCCCATCATC
TGCAATGATGTAGCTACCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >RC204259 protein sequence
Red=Cloning site Green=Tags(s)

```
MDMHSARLDSFLSQLRWELLCGRDTGSPSPMPGPLQPTSQTGPDVQPSHQLRASGALEEDSVCCVEEEEE
EEEAVVTEDRDAALGGPREHALDWDSGFSEVSGSTWREELPVSQRPAPSAQPLRRQCLSVSGLPMPSTRA
PVASVPPVHHPRPKSTPDACLEHWQGLEAEDWTAALLNRGRSRQPLVLGDNCFADLVHNWMLPETGSEG
GDGGGHRARARPPQFLGLSEQLRRRLARARRTAMAGKRLSCPPRPEPELPADVSRFAALMSCRSRQPII
CNDVSYL
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6430_c11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_203370

ORF Size: 861 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_203370.1](#), [NP_976248.1](#)

RefSeq Size: 1058 bp

RefSeq ORF: 858 bp

Locus ID: 389119

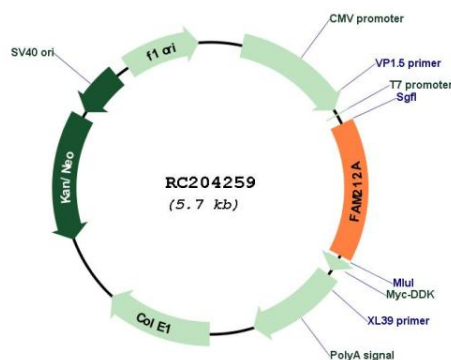
UniProt ID: [Q96EL1](#)

Cytogenetics: 3p21.31

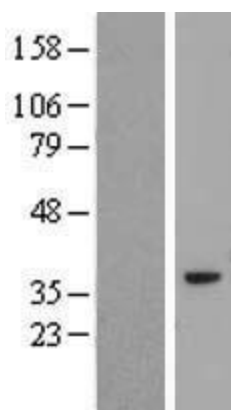
MW: 31.6 kDa

Gene Summary: Inhibitor of the serine/threonine-protein kinase PAK4 (PubMed:26607847). Acts by binding PAK4 in a substrate-like manner, inhibiting the protein kinase activity (PubMed:26607847). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC204259



Western blot validation of overexpression lysate (Cat# [LY404305]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204259 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).