

Product datasheet for RC224310

NPAP1 (NM_018958) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NPAP1 (NM_018958) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NPAP1
Synonyms:	C15orf2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC224310 representing NM_018958 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
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ATGGGCAATTTACTTAGTAAATTTAGACCCGGGTGCCGCCGCCGCCCTGCCAGGGCCAGGGCGTGGCG
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 CCGCGGCTGTCCCGCGGAACGCCGTCGCAGGCCTTCAGCAGCCAGCATCTTCGTCGCCCTAAGAGG
 CCGTGTCTCTCCCTCGGGCTGCGGCCGCCCTCTGGGGTCTGCCGGCTGTGGTTGGGGCTGGCCA
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GCGCCTCTCACTTCTGACCCCCAACACCTCCTAGCTCCACACCCTCCTTCAAGCCTCCCGTCACAAGGG
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ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence: >RC224310 representing NM_018958
 Red=Cloning site Green=Tags(s)

MGNLLSKFRPGCRRRRLPGPGRGAPAPLSRDASPPGRAHSVPTPRPFRGLFRNRARRRPSAASIFVAPKR
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 IPATLLEETEVAQEGPRRVKKDEDPVQIEGEDDEKRTPLSSGEASSTSRSGTQGDVASFRCSGPLEG
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 VFPFGQAAWDPTGHSMAAAPQGASNIPVFGYTSAAAYIPGLDPPTQNSCSGMGGDGTSTVIGGPCVPAFQ
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg2598_d05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

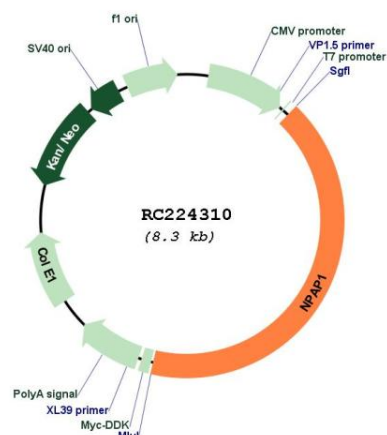


ACCN: NM_018958

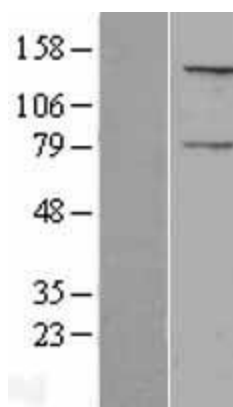
ORF Size: 3468 bp

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_018958.3
RefSeq Size:	3471 bp
RefSeq ORF:	3471 bp
Locus ID:	23742
UniProt ID:	Q9NZP6
Cytogenetics:	15q11.2
MW:	120.8 kDa
Gene Summary:	This intronless retrogene is located in the Prader-Willi syndrome region on chromosome 15. This gene exhibits tissue-specific imprinting. Expression in adult testis and brain is biallelic, while expression in fetal brain is monoallelic and only from the paternal chromosome. The encoded protein is associated with the nuclear pore complex. [provided by RefSeq, Mar 2021]

Product images:



Circular map for RC224310



Western blot validation of overexpression lysate (Cat# [LY402718]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC224310 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).