

Product datasheet for **RC214793**

FP100 (FAAP100) (NM_025161) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FP100 (FAAP100) (NM_025161) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FP100
Synonyms:	C17orf70
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC214793 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCAGCTGTTTGAGCAGCCCTGTCTGGGGAGGACCCCGGCCAGGAGGCCAGATCGGTGAGGTGGAGC
TGTCTCTACACGCCCCAGCCGGGTCCAGGAAAGCCTGCAGCCCCCACTTCTTCCAGTGTGTG
CTCTGTGTCAACATCAGGCTCCAGGTCGCCACGACCTCTCGGGGGCTCCGGGGCTTACGCTGGAG
GACGCCCTCTCGGGCTCTCTTTGGAGCTGATGCCACCCTCTGCAGTCACTGTGGTCTCTGTGGT
TCCCTGATGGCCAGCTCTGCTGTGTGATCTGAAGGCCCTGGTCACTCCAGGTGAGCCCTGGTACCC
AAATGCCCTTGTCAAGATCTCCATCACCTGGAGGAGCCCGTATCTTATAGGGGCCCTGAAGACAGAG
CCACAGGCTGCAGAAGTGCAGAGAATTTCTGCCTGACGAGGATGTGACTGTGACTGCCTGGTGGCT
TTGGTACCACGCGCGGATGCTGGCCATCAAGGCCAGCTGGGATGAGTCCGGGAAGCTGGTCCCGAGCT
GGGGGAGTACTGCCTCCAGGCCCTGTGCTCTGCGCTGCCTGTGGCGGGGTGGCCGCTGTACCACAGC
ACCCCTTCTGACCTCTGTGTGGTGGATCTGTCTCGGGGAAGCACCCCGCTGGGCCCTGAGCAGCCCGAAG
AAGGCCCGGGAGGCCGCCCCCATGCTGTGCCAGCCAGCCTGAACATCTGCAGTGTGCTCTCGTGTG
CGCGTCTCCAGGACGCATGAAGGTGGCACAAGCTCCTGGCCCTGTCCGCCAAAGGCCCGCTGATGACC
TGCAGCCTGGACCTGGACTCTGAGATGCCTGGCCAGCCAGGATGACCACAGAGAGTGCAGGTGAGAAAA
TAAAGGAGCTGTGTCTGGAATTGGCAACATCTCTGAGAGAGTGTCTTTTCTAAAGAAGGCGGTTGACCA
GCGGAACAAGGCACTGACAAGCCTCAACGAGGCCATGAACGTGAGCTGTGCACTGCTGTCAAGCGGCAGC
GGCCCCAGACCCATCTCTGCACCACCAGCACCTGGAGCCGCTGCAGACACAGGATGTGCTCATGG
CCACCTGGTGTAGAGAACAGCAGCAGCTTACGCTGGACCAGGGGTGGACCCTGTGCATCCAGGTGCT
CACCAGTCTCTGTGCTCTCGACCTGGACTCGGCCCTGCTCCGCCATCACCTACACCATCCCGTGGACCAG
CTCGGCCCGGTGCTCGGCGGGAGGTGACGCTACCCCTGGGCCCTGGTGAGAACGCGGGCTCGACCTGC
CCGTGACCCTGTCTGCACGCTGTTCTACAGTCTCAGGGAGGTGGTGGCGGGGCCCTTGCCCCCTCAGA
CTCTGAGGACCCCTTTCTGGATGAGTGCCTCCGACGCTCCTGCCGAGCAAGAGGGTGTTCCTGCTGCC
CTGAGCAGGCACACAGTGGACATGCTGCAGTGTCTGCGCTTCCCTGGCCTGGCCCCGCCACACACAGGG
CCCCCTCCCCTCGGCCACCCGAGACCCTGTGGCCACTTTTCTGGAACTTGTGGGAGCCTGGCAG
CCAGCCAGCAGGACCCGCTCCCTGCGGGCGAGTACCTGCCCCATCTGTGGCTTCCATCAAGGTGTCG
GCGGAGTGTCTCAGAGTGCCTTGAAGGACGGCCACTCAGGCGTGCCTGTGCTGTGCCACCTGCAGT
GGCTCCTTGTGAGAATGCTGTGTGGACGTCGTGAGGGCCCGAGCACTATCTTCCATCCAGGGAGTGGC
CCCTGATGGCGCAACGTTACCTCATCGTCCGAGAGGTGGCCATGACCGACCTGTGCCAGCAGGGCCC
ATCCAGGCCGTGGAGATTCAAGTGGAAAGCTCCTCTCTGGCCGACATTTGCAGGGCGCACCATGCCGTTG
TCGGGCGCATGCAGACGATGGTACAGAGCAGGCCGCCAGGGCTCCAGCGCTCTGATCTCCGTGTGCA
GTACCTCCGCGAGATCCACGCCAACACGAGACTGCTCGGGAGGTGCAGACCCTGCGCGACCGGCTC
TGCAGGGAGGATGAGGCCAGCTCCTGTGCCACCGCCAGAGGCTGCTACAGGTGTACCGGACGTGCGCC
ACCCAGCCTCATCTGCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC214793 protein sequence
Red=Cloning site Green=Tags(s)

MQLFEQPCGEDPRPGGQIGLEVELSSYTPPAGVPGKPAAPHFLPVLCSVSPSGSRVPHDLLGGSGGFLE
 DALFGLLFGADATLLQSPVVL CGLPDGQLCCVILKALVTSRSAPGDPNALVKILHHEEPVIFIGALKTE
 PQAAEAAENFLPDEDVHCDCLVAFGHHGRMLAIKASWDESGKLVPELREYCLPGPVLCACGGGGRRVYHS
 TPSDLCVVDLSRGSTPLGPEQPEEGPGLPPMLCPASLNICSVVLSASPRTHEGGTKLLALSAKGRMT
 CSLDLDSEMPGPARTTESAGQKIKELLSGIGNISERVSFLLKAVDQRNKALTSLEAMNVSCALLSSGT
 GPRPISCTTSTTWSRLQTQDVL MATCVLENSSSFSLDQGWTL CIQVLTSSCALDLD SACS AITYTIPVDQ
 LGPGARREVTLP LGPGENGLDLPVTVSCTLFYSLREVVGALAPSDSEDPFLDECPSDVLPEQEGVCLP
 LSRHTVDMQLC LRFPLAPPHTRAPSP L GPTRDPVATFLET CREPGSQPAGPASLRAEYLPSSVASIKVS
 AELLRAALKDGHSGVPLCCATLQWLLAENAAVDVVRARALSSIQGVAPDGANVHLIVREVAMTDLCPAGP
 IQAVEIQVESSSLADICRAHHA VVGRMQTMVTEQAAQGS SAPDLRVQYLRQIHANHETLLREVQTLRDRLL
 CTEDEASSCATAQRLLQVYRQLRHPSLILL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6688_f12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_025161

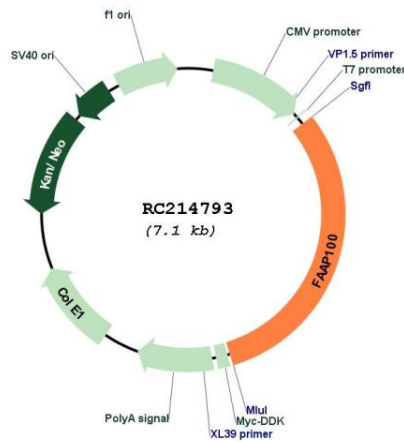
ORF Size: 2190 bp

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](#)

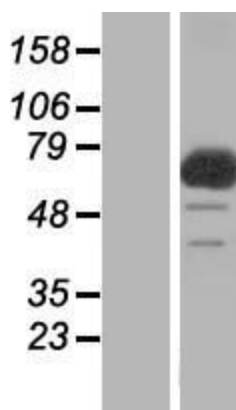
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	<ol style="list-style-type: none"> 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_025161.6
RefSeq Size:	3681 bp
RefSeq ORF:	2646 bp
Locus ID:	80233
UniProt ID:	Q0VG06
Cytogenetics:	17q25.3
MW:	77 kDa
Gene Summary:	FAAP100 is a component of the Fanconi anemia (FA; MIM 277650) core complex and is required for core complex stability and FANCD2 (see MIM 227646) monoubiquitination (Ling et al., 2007 [PubMed 17396147]).[supplied by OMIM, Mar 2008]

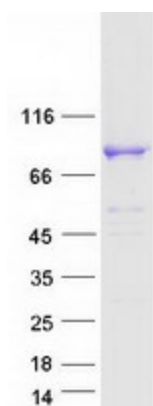
Product images:



Circular map for RC214793



Western blot validation of overexpression lysate (Cat# [LY410860]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC214793 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified FAAP100 protein (Cat# [TP314793]). The protein was produced from HEK293T cells transfected with FAAP100 cDNA clone (Cat# RC214793) using MegaTran 2.0 (Cat# [TT210002]).