

## Product datasheet for MR202522

### Faap24 (NM\_178643) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Faap24 (NM_178643) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Faap24
Synonyms:	AW124591; AW538696; C230052I12Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR202522 representing NM_178643 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAAGGAACCCGCTGATGGGACCGGTCCGGTCCACGTGCCACTAGGACATATTGTGGCTAGTAAA  
AATGGCGCGGGTCCCAACTGGCTCAGGAGATGCAAGGAAAAGTTAGACTCATTTTTGAGGAGGCCCTGGC  
ATCAGCAGATTTTACCTGTCTAGCAAATCTTGCACTCTATGTCAGTGAAGCAGATTTGGTGGCCGGA  
CATGGCTACAGAAAAAGACTCGCTCGCTTTAGAAATCCTCACATCTCAAGGGATCATAATAGTTGAGA  
AGACCCAGATGAGTGAACAGTATTTCCAGCAGTCCAGAAGTTACTGTGCTAGACCTTGGGATGGTGCT  
GCTTCCAGTGGCCAGCCAGTCGGAAGCATCCTGCCTCATTATCCACTTGGTTCAAGAGCAAACAGAGAG  
CCCAGCAAGAACCCTTTCCTCAGAAAAAGCGCTCCATGCTCTCCGAGCTCTCCCTTGTTCAAAACAGTGC  
AGCAGATCCCAGGGGTTGGGAAAGTTAAGGCCCCCTTCTGCTCCAGAAGTTCCGAGCATCCAGCAACT  
GAGCAACGCTTCCGTCCAAGAAGTGGAGGAGTTCGTGGGGCCCGGCAGCACAGCAAATCCACACCTTC  
TTCACCCAGCCTAAGCGACAGCAGCCCCGAGC

**ACGCGT**ACGCGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR202522 representing NM\_178643  
 Red=Cloning site Green=Tags(s)

MERNPPDGTGPVHVPLGHIVASEKWRGSQLAQEMQGVRLIFEEGLASADFYLSKSCILYVTEADLVAG  
 HGYRKLARFRNSSHLQGIIVVEKTQMSEQYFPAVKFTVLDLGMVLLPVASQSEASCLIIHLVQEQTRE  
 PSKNPFLRKKRSMSELVQTVQVQIPGVGKVKAPLLLQKFPSIQQLSNASVQELEEVEVGPAAAQIHTF  
 FTQPKRQQPRS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9044\\_e09.zip](https://cdn.origene.com/chromatograms/mm9044_e09.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_178643

**ORF Size:** 663 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\\_178643.5](#), [NP\\_848758.1](#)

**RefSeq Size:** 1788 bp

**RefSeq ORF:** 666 bp

**Locus ID:** 101831

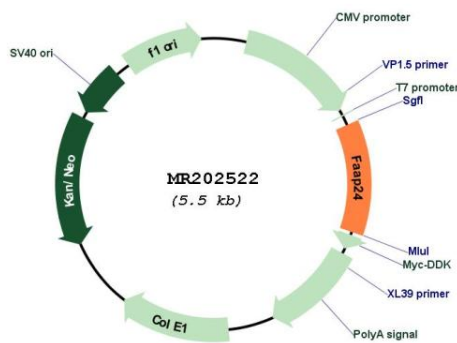
**UniProt ID:** [Q8BHL6](#)

**Cytogenetics:** 7 B2

**MW:** 25.1 kDa

**Gene Summary:** Plays a role in DNA repair through recruitment of the FA core complex to damaged DNA. Regulates FANCD2 monoubiquitination upon DNA damage. Induces chromosomal instability as well as hypersensitivity to DNA cross-linking agents, when repressed. Targets FANCM/FAAP24 complex to the DNA, preferentially to single strand DNA (By similarity). [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR202522