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Product datasheet for MG223815

Fndc4 (NM_022424) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fndc4 (NM_022424) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Fndc4
Synonyms:	2810430J06Rik; 6330410H20Rik; AB030187; AI838506; AW487863; Fnmp1; FRCP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

```
>MG223815 representing NM_022424
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCTCTGGCCCCTCCAGCGAACTCGGTGGAAACCATGGCTTCTTTGATGCCTCTTTCCCCATATCTGA
GTCCCACGGTCCTCCTGCTGGTCAGCTGTGACCTGGGTTTTGTGCGAGCAGACCGACCTCCCTCTCCTGT
GAATGTGACGGTCACTCATCTCAGAGCCAACTCAGCCACTGTGTCCTGGGACGTTCCAGAAGGCAACATC
GTCATTGGCTACTCCATTTCCCAGCAACGACAGAATGGCCCGGGGCAGCGTGTAATCAGAGAAGTGAACA
CCACCACCAGGGCCTGCGCTCTCTGGGGCCTGGCTGAAGACAGTGACTACACAGTGCAGGTTAGGAGCAT
CGGCCTCCGGGGAGAGAGCCCTCCAGGGCCCCGTGTGCACTTCCGCACGCTCAAGGGTTCTGACAGGCTG
CCCTCCAACAGCTCCAGTCCAGGTGATATTACAGTGGAGGGTCTGGATGGAGAGCGGCCATTGCAGACAG
GGGAAGTCGTCATCATTGTAGTGGTATTGCTCATGTGGGCTGCTGTAATCGGGCTATTCTGCCGTCAGTA
TGACATCATCAAGGACAACGACTCCAACAACAACCCCAAGGAGAAGGGGAAGGGGCCTGAACAGAGTCCT
CAGGGAAGGCCAGTGGGGACAACAAGACAGAAAAAGTCTCCATCAATCAACACCATTGATGTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag -  GTTTAA
```

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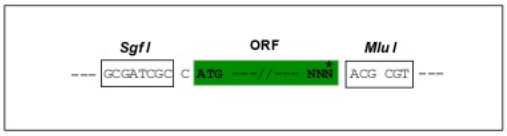
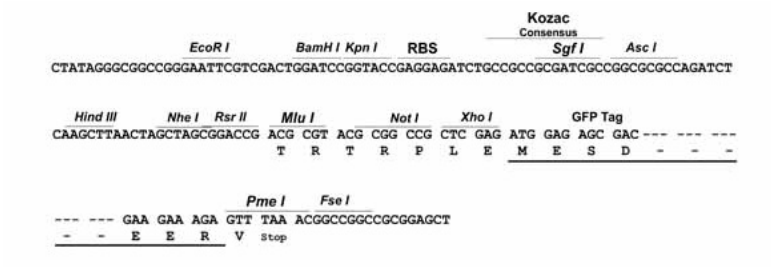
Protein Sequence:

```
>MG223815 representing NM_022424
Red=Cloning site Green=Tags(s)

MPLAPPANSVETMASLMPLSPYLSPTVLLLVSCDLGFVRADRPPSPVNVTVTHLRANSATVSWDVPEGNI
VIGYSISQQRQNGPGQRVIREVNTTTRACALWGLAEDSDYTVQVRSIGLRGESPPGPRVHFRTLKGSDRL
PSNSSSPGDITVEGLDGERPLQTGEVVIIVVVLLMWAAVIGLFCRQYDIIKDNDSNNNPKEKGKGPEQSP
QGRPVGTTRQKKSPSINTIDV

TRTRPLE - GFP Tag -  V
```

Restriction Sites: SgfI-MluI

Cloning Scheme:





ACCN: NM_022424

ORF Size: 693 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).

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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_022424.6

RefSeq Size: 2270 bp

RefSeq ORF: 696 bp

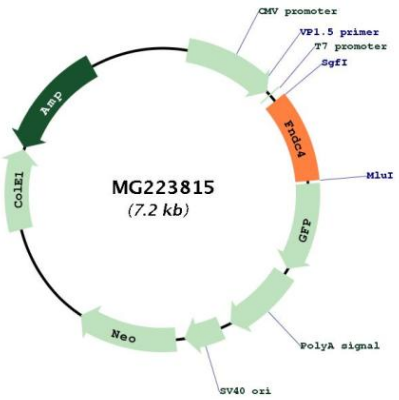
Locus ID: 64339

UniProt ID: Q3TR08

Cytogenetics: 5 B1

Gene Summary: Acts as an anti-inflammatory factor in the intestine and colon. Binds to and acts on macrophages to downregulate pro-inflammatory gene expression. Affects key macrophage functions, including phagocytosis, by downregulating many key pathways for macrophage activation, partly via by STAT3 activation and signaling. May be required to dampen the immunological response in colitis.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG223815

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