

Product datasheet for **RG207471**

FNDC4 (NM_022823) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FNDC4 (NM_022823) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FNDC4
Synonyms:	FRCP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG207471 representing NM_022823 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCAAGCGGATGCCACAGTCCCCCCCCAGCGGACTCCGTGGGGACATGGCTTCGCTGGTGCCCTTT
CCCCATATCTAAGCCCCACGGTCTCTGCTGGTCAGCTGTGACCTGGGCTTCGTGCGAGCAGACCGGCC
TCCCTCCTGTGAATGTGACGGTCACTCACCTCAGAGCCAACCTCGGCCACTGTGCTCTGGGACGTCCCA
GAAGGCAACATCGTCATTGGCTACTCCATTTCCAGCAACGGCAGAATGGCCCCGGGCAGCGTGTGATTC
GGGAGGTGAACACCACCACCCGGCCTGTGCCCTCTGGGGCTGGCTGAAGACAGTGACTACACAGTGCA
GGTCAGGAGCATCGGCCTTCGGGGAGAGAGTCCCCAGGGCCCCGGGTGCACTTCCGAACCTCAAGGGT
TCTGACCGGCTACCTTCAACAGTTCAAGCCCAGGTGACATCACAGTGAAGGTCTGGATGGAGAGCGGC
CACTGCAGACTGGGGAAGTGGTCATCATTGTGGTGGTGTGCTCATGTGGGCTGCTGTAATTGGGCTGTT
CTGCCGTGAGTATGACATCATCAAGGACAATGACTCCAACAACAATCCCAAGGAGAAGGGAAAGGGGCCG
GAACAGAGTCTCAGGGAAGGCCAGTGGGGACAAGACAGAAAAAGTCACCATCTATCAACACCATCGACG
TT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG207471 representing NM_022823
Red=Cloning site Green=Tags(s)

MPSGCHSSPPSGLRGMASLVPLSPYLSPVLLLVSCDLGFVRADRPSPVNVTVTHLRANSATVSWDVP
 EGNIVIGYSISQQRQNGPGQRVIREVNTTTRACALWGLAEDSDYTVQVRSIGLRGESPPGPRVHFRTLKQ
 SDRLPSNSSSPGDITVEGLDGERPLQTGEVVIIVVLLMWAIVGLFCRQYDIKDNDSNNPKKGGKGP
 EQSPQGRPVGTRQKKSPSINTIDV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_022823

ORF Size: 702 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_022823.3](#)

RefSeq Size: 1649 bp

RefSeq ORF: 705 bp

Locus ID: 64838

UniProt ID: [Q9H6D8](#)

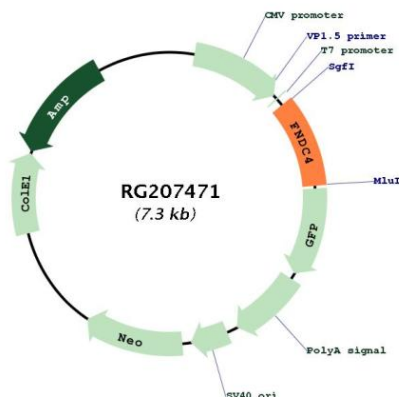
Cytogenetics: 2p23.3

Domains: FN3

Protein Families: Transmembrane

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 RG207471