

## 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)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCTCTGGCCCTCCAGCGAACTCGGTGAAACCATGGCTTCTTTGATGCCTCTTTCCCATATCTGA  
GTCCCACGGTCCTCCTGCTGGTCAGCTGTGACCTGGGTTTTGTGCGAGCAGACCGACCTCCCTCCTGT  
GAATGTGACGGTCACTCATCTCAGAGCCAACCTCAGCCACTGTGCCTGGGACGTTCCAGAAGGCAACATC  
GTCATTGGCTACTCCATTTCCAGCAACGACAGAATGGCCGGGGCAGCGTGAATCAGAGAAGTGAACA  
CCACCACCAGGGCTGCGCTCTCTGGGGCTGGCTGAAGACAGTACTACACAGTGCAGGTTAGGAGCAT  
CGGCCTCCGGGGAGAGACCCTCCAGGGCCCGTGTGCACTTCCGCACGCTCAAGGGTCTGACAGGCTG  
CCCTCCAACAGCTCCAGTCCAGGTGATATTACAGTGGAGGGTCTGGATGGAGAGCGGCCATTGCAGACAG  
GGGAAGTCGTCATCATTGTAGTGGTATTGCTCATGTGGGCTGCTGAATCGGGCTATTCTGCCGTAGTA  
TGACATCATCAAGGACAACGACTCCAACAACAACCCCAAGGAGAAGGGGAAGGGGCTGAACAGAGTCTC  
CAGGGAAGGCCAGTGGGGACAACAAGACAGAAAAAGTCTCCATCAATCAACACCATTGATGTT

**ACGCGT**ACGCGGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG223815 representing NM\_022424  
 Red=Cloning site Green=Tags(s)

MPLAPPANSVETMASLMPLSPYLSPYLVLLLVSCDLGFVADRPPSPVNVTVTHLRANSATVSWDVPEGNI  
 VIGYSISQQRQNGPGQVRVIREVNTTTRACALWGLAEDSDYTVQVRSIGLRGESPSPGPRVHFRTLKGSDDL  
 PSNSSSPGDITVEGLDGERPLQTGEVVIIVVLLMWAAVIGLFCRQYDIKDNDSNNNPKEKKGPEQSP  
 QGRPVGTTRQKSPSINTIDV

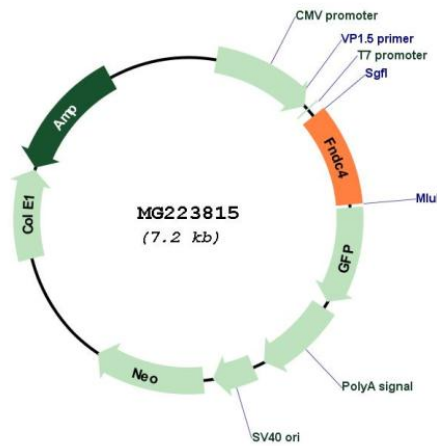
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_022424

**ORF Size:** 693 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_022424.6</a>
<b>RefSeq Size:</b>	2270 bp
<b>RefSeq ORF:</b>	696 bp
<b>Locus ID:</b>	64339
<b>UniProt ID:</b>	<a href="#">Q3TR08</a>
<b>Cytogenetics:</b>	5 B1
<b>Gene Summary:</b>	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]