

## Product datasheet for **MG204625**

### Zfp488 (NM\_001013777) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Zfp488 (NM\_001013777) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Zfp488  
**Synonyms:** Gm1206; Znf488  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG204625 representing NM\_001013777  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGC**C

ATGGCTGCTGGAACATCCACCTTGCTTAGCCTGTCAGGCCCTGCTGATCACATGGCTGAGGGCAAAGGGG  
 CTCCTCTGAGGCCTTCAGTTGAGAAGAGATGGAAGCTCATGGAACCAAGCAGACCCAGGCAGGGATGTT  
 CAAGAAAATGAGCCTTGTGGACTCTGACACTGCTGCAGGAAAGGGTAGCCAAGATGAGGCCTATACTGAA  
 CTGAGCCTGCCAACAGCACCGAACAAGCCTCGACTGGACAGGCCCTCGGGCCTGCAAGGCATACACAGAGC  
 AGAGGCACAATACCTTCACAGAGCTATCATGTCTCCAGGAGAGGCCAGGGGACATCCAGGCCCAGACGAG  
 GAAGCTGGAGAACCAGAAAGGCCAGCTCGGCCCTCAGCAGCTGCCCTCGAGTTTCCTCAGAGCCTCAGGT  
 GATGGCACAGTGTGTTACAGCATGGCCAGGTGCCCCCGGAGTGAGCAGAAAAGTGCTTTCAGCAAGCCAG  
 CCAAACGCCCAGCAGAGAAAACCTAAGCGCTCTCCCATGCTTCTGGCTGGTGGAAAGTGCAAGGGCTCATG  
 GGAGCTCTCAGGACTCATCACCCTGTGGACATCCCATATTGGGCTCATCTGTCAACTTTCAAGTTCATG  
 GGTGATTTCTGGAAATTGCACACATTGTCACAGAACATTCTCCTTGCAATGCTTTCAGGGGGCTCCCA  
 CACCATGGCTGGAGCATACCCAGGTACAAGCCCCACATCCTCAGCTCCTTCCACAGCCTCCCGGGC  
 TCTCTTGCCGCCACACTCTCCTCCTTGGGCTTGTCTACTCAGAACTGGTGTGCGAAGTGCAACCTAGCC  
 TTTGCGCTGACAGCTGACCTGGTCTTCCACATGCGGTACATCACAAAAGGGAACACGTGGGCCCTGACC  
 CACATTCTAAGAAACGAAGAGAGGAAGTTCTCACTTGCCCCGTTGCCACGAGTACTTCCGGGAGCGCCA  
 CCATCTGTCCAGGCATATGGCTTACATAGT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG204625 representing NM\_001013777  
 Red=Cloning site Green=Tags(s)

MAAGTSTLLSLSGPADHMAEGKGAPLRPSVEKRWKLMPEKQTQAGMFKKMSLVSDTAAGKGSQDEAYTE  
 LSLPTAPNKPRLDRPRACKAYTEQRHNTFTELSCLQERPDIQAQTRKLENPEGQLGPQQLPSSFLRASG  
 DGTVCSAWPGAPRSEQKSAFSAKPAKPAEKPKRSPMLLAGSAGSWELSGLITTVDIPYWAHLSTFKFM  
 GDFWKLHTLSQNILLCNAFQGAPTPWLEHTQVQAPTSSAPSSTASRALLPPTLSSLGLSTQNWCAKCNLA  
 FRLTADLVFHMRSHHKREHVGPDPHSHKRRREEVLTCPVCHEYFRERHHLSRHMASHS

TRTRPLE - GFP Tag - V

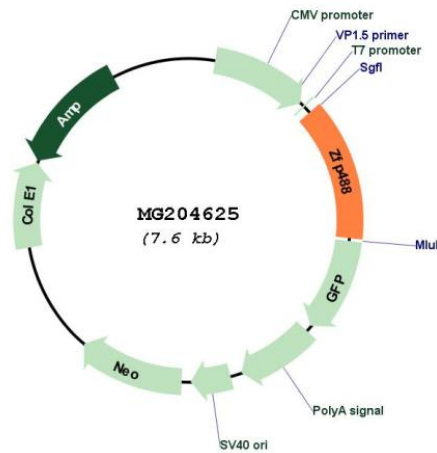
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_001013777

**ORF Size:** 1011 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_001013777.2</a> , <a href="#">NP_001013799.2</a>
<b>RefSeq Size:</b>	4318 bp
<b>RefSeq ORF:</b>	1014 bp
<b>Locus ID:</b>	382867
<b>UniProt ID:</b>	<a href="#">Q5HZG9</a>
<b>Cytogenetics:</b>	14 B
<b>Gene Summary:</b>	Transcriptional repressor (PubMed:16908628). Plays a role in oligodendrocyte differentiation, together with OLIG2 (PubMed:16908628, PubMed:22355521). Mediates Notch signaling-activated formation of oligodendrocyte precursors (PubMed:16908628). Promotes differentiation of adult neural stem progenitor cells (NSPCs) into mature oligodendrocytes and contributes to remyelination following nerve injury (PubMed:22355521). [UniProtKB/Swiss-Prot Function]