

Product datasheet for **MG225028**

Myzap (NM_001033208) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Myzap (NM_001033208) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Myzap
Synonyms:	AA407270; AV006038; Gcom1; Gm640; Grin1a7; Myozap
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG225028 representing NM_001033208
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCTGCGCTCCACGTCCACTGTACCCTGTTCTCAGGTGGCGGCCAAGTCGCTGGAACGCCAGTA
 GAAGGGCAAATGTCTGCAGACTGCGGCTGACTGTGCCCCCTGAGAATCCAGTGCCACAGCAAACAGAAAA
 GAAGATCGAAAGGAAAGATCAGCCTCCAGAAGCAATGGAGAATCTACCAAGAGGCTCCCTCAGGGT
 GTTGTCTATGGTGTGGTGCAGATCAGATCCCAACCAGCAGAAGGAAATGGTCGTGTATGGCTGGTCCA
 CCAATCAGCTGAAAGAAGAGATGAATTACATCAAAGACGTGAGGGCCACACTGGAGAAAGTGAGGAAGCG
 GATGTATGGAGACTATGATGAGATGAGACAGAAGATCCGACAGCTCACCCAGGACCTGTCGGTGTCCCAT
 GCTCAGCAGGACTATCTAGACAGTCACATCCAAGCCCAAGCATCGGCCCTGGATAGCTTCAATGCCATGA
 ATGCGGCATTGGCATCAGACTCTGTTGGCTTACAGAAAACCCCTTGTGGACGTGACTTTGGAAAATAGCCA
 TATCAAGGATCAAATCCGACATCTGCAACAGACCTATGAAGCATCCATGGACAAGCTGCGGGAGAAGCAG
 AGGCAGTTAGAGGCTGCTCAGATGGAAAACCAGCTCCTAAAGATGAGGGTGGAGTATCGCAAGAAGCCA
 ATGCTGAGGTGATGCGGGAGATGACGAGAAAGCTGTACAGCCAGTATGAGGAGAAACTGCAGGAGGCACA
 GCGCAAGCACAGTGCGGAGAAGGAGGTGCTCCTGGAAGAAACCAATAGCTTTCTGAAGGCCATCGAAGAG
 GCCAATAAGAAGATGGAGGCAGCTGAGCTCAGCCTGGAGGAGAAAGACCAGAAGATCGGGGAGCTGGACA
 GGCTGATTGAACGCATGGAGAAGGAACGGCATCAGCTCCAGCTCCAGCTCCTTGAGCATGAGACAGAAAT
 GTCAGGGGAGATGGCAGATTCTGACAAGAACAGGTACCAGCAGCTGGAGGAGGCGTCAGCCAGCCTCCGG
 GAGCGGATCAGACACCTGGATGACATGGTGCAGTCCAGCAGAGAAGAAAGTCAAGCAGATGGTTGAGGAGA
 TTGAGTCATTAAGAAAAAAGTGAACAGAAAGCAGCTCCTGATACTGCAGCTTTTAGAAAAATCTCTTT
 CCTGGAAGGAGAGAATAATGAACTACAAAGCAGGTTGGACTATTTGACAGAAACCCAGCCCAAGACTGAA
 GTGAAAACAAGAGAAATTGGAGTGGGGTGTGATCTTCTCCAGCCCAACAGGCAGGACTCGTGAATCA
 CAATGCCTTCCAGGAGTTACACCCGTACACGAGAGTCTGGAGTTATCCTCAAAGAAAACGCTGACT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG225028 representing NM_001033208
 Red=Cloning site Green=Tags(s)

MLRSTSTVTLFSGGAKSPGTPSRANVCRLRLTVPPENPVPQQTEKKIERKDQPPELSNGESTKRLPQG
 VVYGVVRRSDPNQKEMVYVWSTNQLKEEMNYIKDVRATLEKVRKRMVGDYDEMQRKIRQLTQDLSVSH
 AQQDYLDSHIQAQASALDSFNAMNAALASDSVGLQKTLVDVTLENSHIKQIRHLQQTYEASMDKLREKQ
 RQLEAAQMENQLLKMREVSSQEAANAEMREMTRKLYSQYEEKLQEAQRKHSAEKEVLLLEETNSFLKAIIE
 ANKKMEAAELSLEEKDQKIGELDRLIERMEKERHQLQLLLEHETEMSGEMADSDKNRYQQLEEASASLR
 ERIRHLDDMVHCQQKVKQMVVEIESLKKKVVQKQLLILQLLEKISFLEGENNELQSRLDYLTETQPKTE
 VETREIGVGC DLLPSPGTREITMPSRSYTPYTRVLELSSKTLT

TRTRPLE – GFP Tag – V

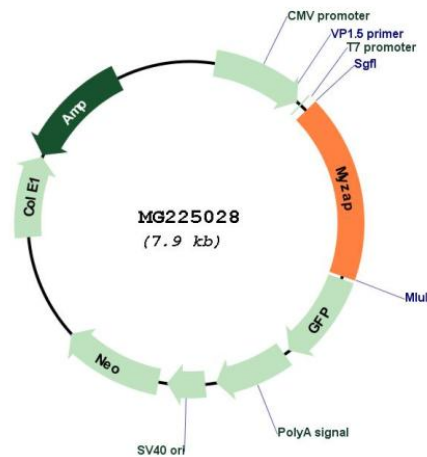
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001033208

ORF Size: 1398 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:	<ol style="list-style-type: none">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:	<u>NM_001033208.4</u> , <u>NP_001028380.1</u>
RefSeq Size:	2283 bp
RefSeq ORF:	1401 bp
Locus ID:	102371
UniProt ID:	<u>Q3UIJ9</u>
Cytogenetics:	9 D
Gene Summary:	Plays a role in cellular signaling via Rho-related GTP-binding proteins and activation of transcription factor SRF. Targets TJP1 to cell junctions (By similarity). In cortical neurons, may play a role in glutaminergic signal transduction through interaction with the NMDA receptor subunit GRIN1 (By similarity).[UniProtKB/Swiss-Prot Function]