

Product datasheet for **MR225028**

Myzap (NM_001033208) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Myzap (NM_001033208) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Myzap
Synonyms:	AA407270; AV006038; Gcom1; Gm640; Grinl1a7; Myozap
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR225028 representing NM_001033208
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCTGCGCTCCACGTCCACTGTACCCTGTTCTCAGGTGGCGGCCAAGTCGCTGGAACGCCAGTA
 GAAGGGCAAATGTCTGCAGACTGCGGCTGACTGTGCCCCCTGAGAATCCAGTGCCACAGCAAACAGAAAA
 GAAGATCGAAAGGAAAGATCAGCCTCCAGAAGCAATGGAGAATCTACCAAGAGGCTCCCTCAGGGT
 GTTGTCTATGGTGTGGTGCAGATCAGATCCCAACCAGCAGAAGGAAATGGTCGTGTATGGCTGGTCCA
 CCAATCAGCTGAAAGAAGAGATGAATTACATCAAAGACGTGAGGGCCACACTGGAGAAAGTGAGGAAGCG
 GATGTATGGAGACTATGATGAGATGAGACAGAAGATCCGACAGCTCACCCAGGACCTGTCGGTGTCCCAT
 GCTCAGCAGGACTATCTAGACAGTCACATCCAAGCCCAGGCATCGGCCCTGGATAGCTTCAATGCCATGA
 ATGCGGCATTGGCATCAGACTCTGTTGGCTTACAGAAAACCCCTTGTGGACGTGACTTTGGAAAATAGCCA
 TATCAAGGATCAAATCCGACATCTGCAACAGACCTATGAAGCATCCATGGACAAGCTGCGGGAGAAGCAG
 AGGCAGTTAGAGGCTGCTCAGATGGAAAACCAGCTCTAAAGATGAGGGTGGAGTATCGCAAGAAAGCCA
 ATGCTGAGGTGATGCGGGAGATGACGAGAAAGCTGTACAGCCAGTATGAGGAGAAACTGCAGGAGGCACA
 GCGCAAGCACAGTGGGAGAAGGAGGTGCTCCTGGAAGAAACCAATAGCTTTCTGAAGGCCATCGAAGAG
 GCCAATAAGAAGATGGAGGCAGCTGAGCTCAGCCTGGAGGAGAAAGACCAGAAGATCGGGGAACTGGACA
 GGCTGATTGAACGCATGGAGAAGGAACGGCATCAGCTCCAGCTCCAGCTCCTTGAGCATGAGACAGAAAT
 GTCAGGGGAGATGGCAGATTCTGACAAGAACAGGTACCAGCAGCTGGAGGAGGCGTCGGCCAGCCTCCGG
 GAGCGGATCAGACACCTGGATGACATGGTGCCTGCCAGCAGAAGAAAGTCAAGCAGATGGTTGAGGAGA
 TTGAGTCATTAAGAAAAAGTGAACAGAAAGCAGCTCCTGATACTGCAGCTTTTAGAAAAATCTCTTT
 CCTGGAAGGAGAGAATAATGAACTACAAAGCAGGTTGGACTATTTGACAGAAACCCAGCCCAAGACTGAA
 GTGAAAACAAGAGAAATTGGAGTGGGGTGTGATCTTCTCCAGCCCAACAGGCAGGACTCGTGAATCA
 CAATGCCTTCCAGGAGTTACACCCCGTACACGAGAGTCTGGAGTTATCCTCAAAGAAAACGCTGACT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR225028 representing NM_001033208
 Red=Cloning site Green=Tags(s)

MLRSTSTVTLFSGGAKSPGTPSRRANVCRRLTVPPENPVPQQTEKKIERKDQPEL SNGESTKRLPQG
 VVYGVVRRSDPNQQKEMVVYGWSTNQLKEEMNYIKDV RATLEKVRKRMYG DYDEM RQKIRQLTQDLSVSH
 AQQDYLD SHIQAQASALDSFNAMNAALASDSVGLQKTLVDVTLENSHIKQDIRHLQQT YEASMDKLRKQ
 RQLEAAQ MENQLLKM RVESSEANA EVMREMRKLYSQYEEKLQEAQRKHS AEKEV LLEETNSFLK AIEE
 ANKKMEAAEL SLEEKDQKIGELDR LIERMEKERHQLQLLLEHETEMSGEMADSDKNRYQQLEEASASLR
 ERIRHLDDMVHCQQKVKVQMV EIESLKKKVVQKQLLILQLLEKISFLEGENNELQSRLDYLTETQPKTE
 VETREIGVGDLLPSPTGRTREITMPSRSYTPYTRVLELSSKTLT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9038_f02.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


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:

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_001033208.4](#), [NP_001028380.1](#)

RefSeq Size: 2283 bp

RefSeq ORF: 1401 bp

Locus ID: 102371

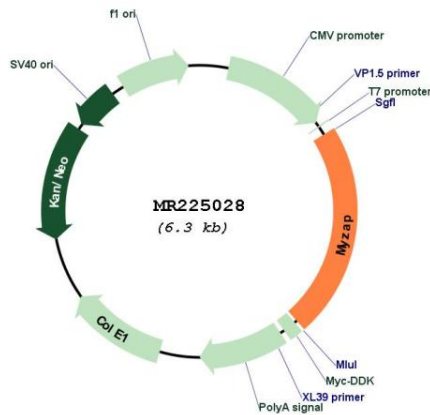
UniProt ID: [Q3UIJ9](#)

Cytogenetics: 9 D

MW: 54.3 kDa

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]

Product images:



Circular map for MR225028