

Product datasheet for **RR206130**

Myzap (NM_001014211) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Myzap (NM_001014211) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Myzap
Synonyms:	Gcom1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR206130 representing NM_001014211
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCTGCGCTCCACGTCCACTGTACCCTGCTCTCAGGCGGCAGTGCCAAGTCGCTGGGACGCCAGTA
 GAAGGGCAAATGTCTGCAGACTGAGGCTGACCGTGCCCTCTGAGAATCCAGTGCCACAGCAAAAAGAAAA
 GAAGATTGAGAGGAAAGACCAGCCTCCAGAACTAAGCAATGGAGAATCTACCAAGAGCTCCCTCAAGGT
 GTTGTCTATGGTGTGGTGCAGATCAGATCCCAATCAGCAGAAGGAAATGGTGGTGTATGGCTGGTCCA
 CCAATCAGCTGAAAGAAGAGATGAATTACATCAAGGATGTGAGGGCTACATTGGAGAAAGTGAGGAAGCG
 TATGTACGGAGATTATGATGAGATGAGACAGAAGATCCGACAGCTCACCAAGACCTGTCGGTCTCCCAT
 GCTCAGCAGGACTATCTAGACAGTCACATCCAAGCCCAGGCATCGGCTCTGGATAGCTTCAATGCCATGA
 ACTCGGCATTGGCATTGGACTCTGTTGGCTTACAGAAAACCCCTTGTGGATGTGACTTTGGAAAACAGCAA
 CATCAAGGATCAAATCAGACATTTGCAGCAAACCTATGAAGCGTCCATGGACAAGCTGCGAGAGAAGCAG
 AGGCAGCTGGAGGCTGCTCAAATGGAAAACCAGCTGCTGAAGATGAGGGTGGAGTCGTCCTCAAGAAGCCA
 ATGCTGAGGTGATGCGGGAGATGACGAGAAAGCTGTACAGTCAGTATGAAGAGAAGCTGCAGGAAGCACA
 GCGCAAGCACAGCGCGGAGAAGGAGTCTCTGGAAGAAACCAATAGCTTCTTGAAGGCGATCGAAGAG
 GCCAATAAAAAGATGGAGGCAGCCGAGCTGAGCCTGGAGGAGAAAAGACCAGAGGATCGGGGAGCTGGACA
 GGCTGATCGAACGCATGGAGAAGGAACGGCATCAACTCCAGCTCCAGCTCCTTGAGCATGAGACAGAAAT
 GTCGGGGGAGATGGCAGATTTTGACAAGAACAGGTACCAGCAGTTGGAGGAGGCATCAGCCAGCCTTCGA
 GAGAGGATCAGACACCTGGATGACATGGTTCATTGCCAGCAGAAGAAAGTCAAGCAGATGGTTGAGGAGA
 TTGAATCGTTAAAGAAAAAGTGAACAGAAGCAGCTCCTGATACTGCAGCTTTTAGAAAAATCTCTTT
 CCTGGAAGGAGAGAATAACGAACACTACAAAGCAGGTTGGACTATTTGACAGAAACCCAGCCCAAGACTGAA
 GTGGAACGAGAGAAATTGGAGTGGGCTGTGATCTTCTACCCAGCACAACAGGCAGGACTCGTGAATCG
 CAGTGCCCTCCAGGAGTTACACCCCGTACACAAGAGTCTGGAGTTAACCTCAAAGAAGACGCTGACT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR206130 representing NM_001014211
 Red=Cloning site Green=Tags(s)

MLRSTSTVTLSSGSAKSPGTPSRRANVCRLRLTVPENPVPQQKEKKIERKDQPEL SNGESTKKLPQG
 VVYGVVRRSDPNQKEMVVYGWSTNQLKEEMNYIKDVRATLEKVRKRMYGDYDEMQRKIRQLTQDLSVSH
 AQQDYLDSHIQAQASALDSFNAMNSALALDSVGLQKTLVDVTLENSNIKDQIRHLQQTYESMDKLRKQ
 RQLEAAQMENQLLKMRVSSQEAANAEMREMTRKLYSQYEEKLQEAQRKHSAAKEVLL EETNSFLKAIIE
 ANKKMEEAEL SLEEKDQRIGELDRLIERMEKERHQLQLLLEHE TEMSGEMADFDKNRYQQL EEAASLR
 ERIRHLDDMVHCQQKVKQMVVEIESLKKKVVQKQLLILQLLEKISFLEGENNELQSRLDYL TETQPKTE
 VETREIGVGDLLPSTTGRTREIAVPSRSYTPYTRVLELTSKKTLL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

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_001014211.1](#), [NP_001014233.1](#)

RefSeq Size: 2220 bp

RefSeq ORF: 1401 bp

Locus ID: 363091

UniProt ID: [Q5EB94](#)

Cytogenetics: 8q24

MW: 54 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.[UniProtKB/Swiss-Prot Function]