

Product datasheet for MC224172

Zfp423 (NM_033327) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Zfp423 (NM_033327) Mouse Untagged Clone
Tag: Tag Free
Symbol: Zfp423
Synonyms: ataxia1; Ebfaz; mKIAA0760; nur12; Roaz; Zfp104; Znf423
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC224172 representing NM_033327
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGTCCAGGCGGAAGCAGGCGAAGCCGCGATCGGTGAAAGTTGAAGAGGGGGAGGCCTCGGACTTCTCGC
 TGGCCTGGGATTCCTCTGTGGCAGCAGCAGGAGCCTGGAAGGAGAGCCAGAGTGTGATCGGAAAACCAG
 CCGTGCCTGGAAGACAGGAACAGCGTGACAAGTCAAGAGGAGAGAAATGAGGACGATGAAGACGTGGAA
 GATGAGTCAATTTACACCTGCGATCACTGTGACGAGGACTTCGAGTCTCTGGCAGACCTGACGGACCACC
 GGGCCACCGCTGTCTGGAGATGGTGTGACGACCCACAGCTCTCTGGGTGGTTCATCTCCCTCCAG
 CAAGGATGTTGCGTCACCTACGCAGATGATAGGAGATGGTTGTGACCTCGGCCTCGGCGAGGAGGAAGGC
 GGCACCGGCTGCCCTACCCTTGCCAGTTCTGCGACAAGTCCCTCATCCGCTGAGCTACTTGAAGAGGC
 ATGAACAGATCCACAGCGACAAGCTGCCGTTCAAGTGCACCTTCTGCAGCCGCTCTTCAAACACAAGAG
 GAGCCGAGACCGGCACATCAAGCTGCACACGGGCGACAAGAAGTACCACTGTGACGAGTGCAGGCGAGCT
 TTCTCCCGCAGCGACCACCTCAAGATCCACCTGAAGACCCACAGCTCCAGCAAGCCGTTCAAGTGCAGCG
 TGTGCAAGCGCGGCTTCTCTCCACAGTCCCTGCAGAGCCACATGCAGGCCCAAGAAGAACAAGGA
 ACACCTGGCCAAGTCGGAGAAGGAAGCCAAGAAGGACGACTTCATGTGCGACTACTGCGAGGATACCTTT
 AGCCAGACAGAGGAGCTGGAGAAGCACGTGCTCACCTCCACCCGACGCTCTCAGAGAAGGCGGATCTAC
 AGTGCATCCACTGCCAGAGGTCTTTGTTGATGAGAGCACGCTGCTTGCCACATCCACCAAGCCCACGC
 CAACCAGAAACAAGTGCCCATGTGCCCTGAGCAGTTCTCTCTGTGGAGGGTGTGTACTGCCACCTG
 GACAGCCACCGGACGCCGACTCCAGTAACACAGCGTCAGCCCTGACCTGTGCTGGGCAGTGTGGCTT
 CCATGAGCAGTGTACACCTGACTCCAGCGCTCTGTGGAGCGGGTCCACGCCAGACTCCACCTTGAA
 GCCACTGAGGGGGCAGAAGAAGATGCGGGATGATGGGCAGAGCTGGCCCAAGGTCGTCTACAGCTGCCCC
 TATTGTTCTAAGCGGGACTTTACCAGCCTGGCTGTGCTAGAGATTCATCTGAAGACCATTACCGCGATA
 AACCTCAGCAGAGTCACACGTGTGAGATCTGCCTTACTCCATGCCACGCTCTACAACCTCAATGAGCA
 TGTGCGCAAGCTGCACAAGAGCCACGCCTACCCGTCATGCAGTTTGGCAACATCTCTGCCTTCCACTGC
 AACTACTGCCCGAGATGTTTGCTGACATCAACAGCCTGCAGGAGCACATTGAGTCTCGCACTGTGGCC



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CCAATGCCAACCCCTGATGGGAATAATGCTTCTTCTGCAACCAAGTGCTCCATGGGCTTCTCACCGA
 GTCCTCGCTCACAGACATCCAACAGGCGCATTGCAGTGTGGGGAGCACCAAGCTGGAGTCTCCTGTT
 GTTCAGCCACACAGTCTTTCATGGAGGTCTACTCCTGCCCTTACTGTACCAACTCCCCTATCTTTGGCT
 CCATCTGAAGCTCACTAAACACATTAAGAGAACCACAAGAACATCCCCTGGCACACAGCAAGAAGTC
 CAAGGCTGAGCAGAGCCAGTCTCCTCCGACGTGAGGTGTCTTCCCGAAACGACAGCGCCTCTCGGGG
 AGCGCCAACTCCATCTCTAATGGCGAGTACCCCTGCAATCAGTGCAGCTCAAGTCTCCAACCTCGAGA
 GCTTCCAGACCCACCTGAAGCTGCACCTGGAGCTGCTGCTTCGGAACAGGCTGCCCCAGTGCAAAGA
 GGACTTCGACTCTCAGGAGTCCCTCCTGCAGCATCTGACGGTGCATTACATGACTACATCCACCCACTAC
 GTGTGCGAGAGCTGTGACAAGCAGTTCTCCTCGGTGGATGACCTACAGAAGCACCTGCTGGACATGCACA
 CCTTTGTGCTATACCACTGCACGCTGTGTGAGGAGTCTTCGACTCCAAGGTGTCCATCCAGGTGCACCT
 GGCCGTGAAGCACAGCAACGAGAAGAAGATGTACCCTGCACAGCCTGCAACTGGGACTTCCGCAAGGAG
 GCTGACCTGCAGGTGCACGTCAAACACAGCCACCTCGGCAACCCGGCCAAAGGCCACAAGTGCATCTTCT
 GCGGGGAGACCTTCAGCACCGAGGTGGAGTGCAGTGCCACATCACCACACAGCAAGAAGTACAAGTGC
 CAGTTCTGCAGCAAGGCCTTCCATGCCGTCTCCTGCTGGAGAAGCACCTGCGGGAGAAGCACTGCGTG
 TTTGACGCTGCCGCGGAGATGGCACGGCAACGGGGTCCCCCACCTCCACCAAGAAGGCAGAGCCCG
 CCGACCTGCAGGGCATGCTGCTCAAGAATCCTGAGGCGCCGAACAGCCAGGAGGCAAGTGGAGTACGCT
 GGACGCATCAGAGCCCATGTATGGCTGTGACATCTGCGGTGCAGCCTACACCATGGAGGTGTTGCTGCAG
 AACCACCGCTCCGGGATCAACATCCGGCCGGGAGGACGACGGCTCACGCAAGAAGGCAGAATTCA
 TAAAGGGCAGCCATAAGTGTAACTGTGCTCTCGGACTTCTTCTCGGAGAACGGGCTCCGGGAACCT
 GCAGACGACCCGGGGCCCTGCCAAGCACTACATGTGTCCCATCTGTGGCAGCGCTTCCCCTCGTGCTG
 AACTCACCGAGCACAAGGTGACCCACAGCAAGAGTCTGGACACGGGCACCTGTGCGATCTGCAAAATGC
 CACTGCAGAGTGGAGGAGTTCATTGAGCACTGCCAGATGCACCCGACTTACGGAACTCCCTCACCGG
 CTTCCGCTGTGTGGTCTGTATGCAGACTGTACCTCGACGTGGAACCAAGTCCATGGCACCTTTCAC
 ATGCAGAAGCTGGCTGGCAGCTCAGCTGCCTCCTCCCCAATGGCCAGGACTGCAGAAGCTCTACAAT
 GCGCCCTGTGCCTCAAAGAGTTCCTAGCAAGCAGGACCTGGTCAAGCTTGTCAATGGGCTGCCCTA
 TGGCCTGTGTGCCGGCTGCATGGCCGGAGTGCCAATGGACAGGTGGGTGGCCTGGCCCCACCCGAACCT
 GCTGACCGGCCCTGTGCCGGCTCCGCTGCCCTGAATGTAACTGAAAGTTCGAGAGTGTGAGGACCTGG
 AGAGCCACATGCAGGTGGACCACCGTGTCTTACACCAGAGACAGTGGGCCCGGAAAGGTGCCAGAC
 GTCACCAGTGCAGGAGGAAGACGTACCAGTGTATCAAGTGCCAGATGACGTTGAGAACGAGAGAGAG
 ATTCAGATCCACGTGCCAACACATGATCGAGGAAGGCATTAACCATGAGTGTAACTGTCAACCAGA
 TGTTGACTCCCCAGCAAGCTCCTCTGCCACCTATTGAGCACAGCTTCGAGGGCATGGGCGGTACCTT
 CAAGTGCCCGTCTGCTTACAGTCTTCCAGGCAACAAGCTGCAACAGCATATCTTTGCCGTGCAC
 GGGCAGGAGGACAAAATCTACGACTGCTCGCAGTGCCACAGAAGTTTTCTTCCAGACAGAGTTGCAGA
 ACCACACGATGAGCCAGCACGACAGTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul
ACCN: NM_033327
Insert Size: 3879 bp

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
Components:	<p>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).</p>
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:	NM_033327.2 , NP_201584.2
RefSeq Size:	4916 bp
RefSeq ORF:	3879 bp
Locus ID:	94187
UniProt ID:	Q80TS5
Cytogenetics:	8 C3
Gene Summary:	<p>Transcription factor that can both act as an activator or a repressor depending on the context. Plays a central role in BMP signaling and olfactory neurogenesis. Associates with SMADs in response to BMP2 leading to activate transcription of BMP target genes. Acts as a transcriptional repressor via its interaction with EBF1, a transcription factor involved in terminal olfactory receptor neurons differentiation; this interaction preventing EBF1 to bind DNA and activate olfactory-specific genes. Involved in olfactory neurogenesis by participating in a developmental switch that regulates the transition from differentiation to maturation in olfactory receptor neurons. Controls proliferation and differentiation of neural precursors in cerebellar vermis formation.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).</p>