

Product datasheet for **MG211913**

Zfp521 (BC021376) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Zfp521 (BC021376) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Zfp521
Synonyms:	B930086A16Rik; Evi3; Znf521
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG211913 representing BC021376 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCTCGCCGAAGCAAGCGAAACCGAGATCCCTCAAAGACCCCAACTGTAAACTGAAGACAAGATTG
AAGATGGGAGGCGAGTAGACTGCAAGAAGAGGCCAGAAGACGGGGAGGAGTTGGAGGAGGACGCTGTGCA
CAGCTGTGACAGCTGCCTCCAGGTGTTGAGTCACTGAGCGACATCACAGAGCACAAGATCCATCAGTGC
CAGCTGACAGATGGCGTTGACGTTGAGGACGACCCAGCTGCTCTGGCCAGCCTCCTCGCCTCCAGTA
AGGACCAGACTTCCCCAGCCATGGAGAAGGGTGTGATTCGGAGAGGAAGAAGTGGCCCTGGACTGCC
TTACCCATGCCAGTTCTGTGACAAGTCCTTAGCCGCTCAGCTACCTAAAGCACCATGAACAGAGCCAT
AGTGACAAGCTGCCCTTCAAGTGACCTACTGCAGTCGGCTGTTCAAACAAGCGGAGCCGTGACCGCC
ACATAAAGCTCCACACTGGGATAAAGAATCACTGTAGCGAGTGTGACGACGCTTCTCCCGGAGCGA
TCATCTCAAGATCCACTAAAGACTCACACCTCCAACAAGCCATATAAATGTGCCGTCTGCCGAGAGGG
TTCCTCTCTCTAGTCTTGCACGGACATATGCAGGTTTCATGAGCGGAACAAGGACGGCTCCAGTCTG
GCTCCAGGATGGAGGACTGGAAGATGAAGGACACTCAGAAGTGCAGCCAGTGCAGGAAGGCTTTGACTT
CCCGGAAGACCTCAGAAGCACATTGCAGAATGCCACCCGAGTGTCCCTAATGAGGACCGAGCAGCC
CTCCAGTGCATGTACTGCCACGAGCTGTTGTTGGAGGAGACGTCCTCATGAACCACATCGAGCAGGTC
ACGGGGGTGAGAAGAAGAACTTTGCAGCATTTGCTCAGAGAGTTCCTCACGGTCGAGGAGCTGTATAG
CCACATGGACAGTCACCAGCAGCCAGAGTCCTGCAATCACAGCAACAGCCCTTCCCTGGTCACTGTGGGT
TACACCTCAGTGTCCAGCAGACTCCAGACTCGAACCTCTCAGTGGACAGCTCGACCATGGTAGAGGCTG
CACCACCATTCCAAGAGCCGCGGGAGGAAGCGAGCTGCTCAGCAGACCTCCGATATGACTGGCCCTC
TAGTAAGCAGGCGAAAGTACCTACAGCTGTATTTACTGCAACAAACAGTTATTTTCCAGTCTCGCGGT
CTGCAGATTCACTTGAAGAACTATGCATTTAGATAAGCCTGAGCAGGCTCATATCTGTCAGTATTGCTTG
AGGTCTTACCCTCACTCTATAACCTAAATGAACATCTTAAACAAGTGCACGAAGCTCAGGACCCCGCCT
GATTGTTTCGGCCATGCCTGCCATTGTTTACCAGTGAACCTTCTGTTCCGAAGTTGTCAATGACCTCAAC



[View online »](#)

ACCCTTCAGGAGCACATCCGATGTTCTCATGGGTTTGCCAATCCC GCGGCCAAGGACAGCAATGC GTTCT
TTTGTCCCATTTGTTACATGGGGTTTCTACTGACTCTTCACTTGAAGAGCATATAAGACAGGTCCATTG
TGACCTCAGTGGCTCCCGGTTTGGGTCTCTGTGCTTGGGACTCCAAAAGAACCGGTGGTTGAAGTCTAC
TCCTGTTCTATTGTACAAAATTCGCAATATTTCAACAGTGTCTTAAACTGAATAAGCATATTAAGAGA
ATCATAAAAACATTCCCTTGGCCCTGAATTATTTCACAATGGGAAGAAATCCC GGGCCTTGAGCCCTT
GTCCCTGTGGCTATAGAACAAACAACCTTAAAGATGATGCAGACTGTGGGAGCGGGCCCTGCCCTGCC
TCTGGAGAGTATATCTGTAATCAGTGTGGTGTAAAGTACACGTCCTAGACAGCTTTCAGACTCACCTCA
AAACCCATTTGGACACCGTGTGCCAAAACCTGACCTGCCCTCAGTGTAAACAAAGAATTCCCAACCAAGA
GTCCTTGCTAAAGCACGTGACCATCCACTTTATGATCACCTCAACCTACTACATCTGTGAGAGCTGTGAC
AAGCAGTTCACCTCCGTGGATGACCTCCAGAAGCACCTGCTGGACATGCACACCTTCGTCTTCTCCGCT
GCACACTCTGCCAGGAAGTGTTCGACTCCAAGTCTCTATCCAGCTGCACTTGGCCGTGAAGCACAGTAA
CGAGAAGAAGGTGTACCGCTGCACGTCTGCAACTGGGACTTCCGCAACGAGACCGACTGCAGCTGCAC
GTGAAGCACAACCACTTGGAGAACCAAGGCAAAGTGCACAAGTGCATCTTCTGCGCGAGTCGTTTGGCA
CCGAGGTGGAGCTGCAGTGCCACATCACCACCCACAGCAAGAAGTACAACCTGCAGGTTCTGCAGCAAGGC
CTTCCACGCCGTATCTGCTGGAGAAGCACCTGCGGGAGAAACTGTGTGTTTGAACCAAGACCCCC
AACTGTGGCACC AACGGGCCTCGGAGCAAGTGCAGAAGGAGGAGCTGAGCTGCAGACCTTGCTACCA
ACAGCCAGGAGTCCCATAACAGCCATGATGGGAGTGAGGAGGACGTGGACAGCTCTGAACCCATGTATGG
CTGCGACATCTGCGGGGCGGCCTACACCATGGAGACGTTGCTGCAGAACCACAGCTCCGAGACCACAAC
ATCAGGCCTGGAGAAAGCGCCATCGTGAAGAAGAAGGCGGAGCTCATTAAAGGGAATTACAAGTGTAAAG
TTTGCTCGAGAACCTTCTTCTCCGAAAACGGGCTCCGTGAACACATGCAGACCCACTTAGGCCCGGTCAA
ACACTACATGTGCCCTATCTGTGGAGAGCGCTTCCCTTCCCTATTAACCTCACAGAGCACAAGTCACA
CACAGCAAGAGCCTGGATACCGGAAACTGTCGTATTTGTAAGATGCCCTGCAGAGCGAAGAGGAGTTTT
TGGAGCACTGCCAGATGCACCCTGACCTGAGGAATTCCTGACTGGGTTTCGTTGTGGTGTATGCA
GACTGTGACCTCCACCTTGGAACTCAAAATCCACGGGACCTTCCACATGCAGAAGACGGGAATGGGTCC
TCCGTGCAGACCACCGGCGTGGCCAGCACGTTTCAAAAACGTATTAAGTGCGCATCTTGCCCTCAAAGAGT
TCCGTTCCAAGCAAGATCTGGTAAAACCTGACATCAACGGCCTGCCATATGGTCTGTGTGCCGGCTGTGT
GAATCTCAGTAAGAGCAGTAGCCCGGCCTCAGTCTCCCTCCTGGTGCCAGCAGGCCAGGCTTGGGCCAG
AATGAGAGTCTGAGCGCCATGGAAGGAAAAGGCAAGGCGGGGGGACTGAAGACGCGCTGTTCAAGCTGCA
ATGTCAAGTTTGAGTCTGAAAGCGAACTGCAGAACCACATCCAGACGGTGCACCGGGAGCTTGTGCCAGA
CGCCAACAGCACACAGTTGAAAACGCCCAAGTGTACCCATGCCAGAATCAGTCCCTCCAGTCCGAT
GAGAAGAAGACCTACCAGTGTATCAAGTGTGAGTGGTTTTCTACAACGAGTGGGACATCCAGGTTTCATG
TGGCAAAATCAGATGATTGATGAAGGGCTGAACCATGAGTGCAAACTCTGCAGCCAGACCTTTGACTCCCC
TGCCAAAACCTTCAAGTGTACCTGATAGAGCACAGCTTCAAGGGATGGGTGGTACCTTCAAGTGCCTCCGTC
TGTTTTACAGTGTGTTGTTCAAGCTAACAAAGTTGCAACAGCATATTTCTCTGCCATGGACAAGAAGACA
AGATCTATGACTGCACACAATGCCACAGAAGTTTTCTTCCAAACAGAGCTACAGAATCATACGATGAC
TCAGCACAGCAGT

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG211913 representing BC021376
 Red=Cloning site Green=Tags(s)

```
MSRRKQAKPRSLKDPNCKLEDKIEDGEAVDCKKRPEDGEELEEDAVHSCDSCLQVFESLSDITEHKIHQC
QLTDGVDVEDDPSCSWPASSPSSKDQTSPPSHGEGCDFGEEEGGPLPYPCQFCDKFSRSLSYLKHHEQSH
SDKLPFKCTYCSRLFHKHRSRDRHIKLTGDKKYHCSECDAAF SRDHLKIHLKTHTSNPKYKCAVCRRG
FLSSSSLHGMMQVHERNKDGSQSGSRMEDWKMMDTQKCSQCEEGDFPEDLQKHIAECHPEPCSPNEDRAA
LQCMYCHELFVEETSLMNHIEQVHGGEKKNCSICSEFLTVEELYSHMDSHQQPESCNSPNSPSLVTVG
YTSVSTTPDPSNLSVDSSTMVEAAPPKPKSRGRKRAAQQTSDMTGPSSKQAKVTYSCYCNKQLFSSLAV
LQIHLKTMHLDKPEQAHICQYCLEVLP SLYNLNEHLKQVHEAQDPGLIVSAMP AIVYQC NFCSEVVDNLN
TLQEHIRCSHG FANPAAKDSNAFFCPHCYMGFLTDSSLEEHIRQVHCDLSGSRFGSPVLGTPKEPVVEVY
SCSYCTNSPIFNSVLKLNKH IKENHKNIPALNYIHNGKKSRA LSPLSPVAIEQTTLKMMQTVGGGPARA
SGEYICNQCGAKYTSLSDFQTHLKT HLDTVLPKLTCPQC NKEFPNQESLLKHVTIHFMITSTYYICESCD
KQFTSVDDLQKHLLDMHTFVFRCTLCQEVFDSK VSIQLHLAVKHSNEKKVYRCTSCNWD FRNETDLQLH
VKHNHLENQGVHKC IFCGSEFGTEVELQCHITTHSKY NCRFCSKAFHAVILLEKHLREKHCVFETKTP
NGGTNGASEQVQKEEAELQ TLLTNSQESHNSHDGSEEDVDSSEPMYGCDCGAA YTMETLLQNHQLRDHN
IRPGESAI VKKKAELIKGN YKCNVCSRTFFSENGLREHMQTHLGPVKHYMCPICGERFPSLLTLTEHKVT
HSKSLDTGNCRICKMPLQSEEFLEHCQMHPDLRNSLTGFRVCVMQTVTSTLELKIHGTFHMQKTNGS
SVQTTGRGQHVQKLYKCA SCLKEFRSKQDLVKLDINGLPYGLCAGCVNL SKSSSPGLSLPPGASRPLGQ
NESL SAMEGKGAGGLKTRC SSCNVKFESESELQNH IQT VHRELVPDANSTQLKTPQVSPMPRISPSQSD
EKKTYQC IKCQMVFYNEWD IQVHVANHMID EGLNHECKLCSQTFDSPA KLQCHLIEHSFEGMGGTFKCPV
CFTVFVQANKLQQHIFSAHGQEDKIYDCTQCPQKFFFQTE LQNHTMTQHSS
```

TRTRPLE - GFP Tag - V

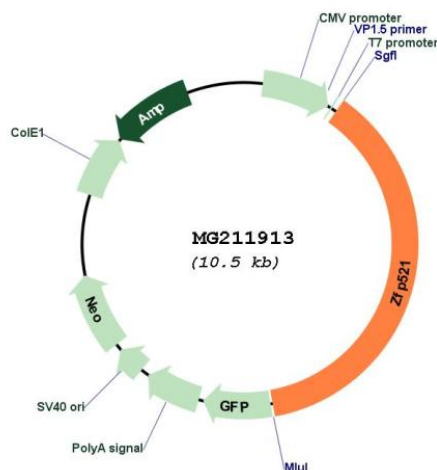
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: BC021376

ORF Size: 3935 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: [BC021376](#), [AAH21376](#)

RefSeq Size: 4781 bp

RefSeq ORF: 3935 bp

Locus ID: 225207

Cytogenetics: 18 7.68 cM

Gene Summary:

Transcription factor that can both act as an activator or a repressor depending on the context. Involved in BMP signaling and in the regulation of the immature compartment of the hematopoietic system. 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 specification of B-cell lineage; this interaction preventing EBF1 to bind DNA and activate target genes.[UniProtKB/Swiss-Prot Function]