

Product datasheet for **MG226728**

Gata2 (NM_008090) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gata2 (NM_008090) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gata2
Synonyms:	Gata-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG226728 representing NM_008090
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGGTGGCGCCTGAGCAGCCTCGTGGATGGCGCACCCCGCGTATTGAATGCGCAGCACCCCGACT
 CGACCATCCGGGCTGGCGCATAACTACATGGAGCCAGCACAGCTGCTGCCTCCCGACGAGGTGGATGT
 CTTCTTCAACCATCTCGACTCGCAGGGCAACCCTTACTACGCCAACCCGGCCACGCGCGCGCGCGT
 TCCTACAGCCCGGCGCATGCCCGTCTCACCAGGAGCCAGATGTGCCGACCACACTTGTTCACAGCCAG
 GCTTGCCGTGGCTGGACGGGGGCAAGCAGCTCTCTGCGCGCGCTGCCCATACCACAGTCCCTGGAC
 CGTCAGCCGTTCTCAAGACCCCGCTGCACCCCTCAGCTGCTGGAGCACCCGGAGGGCCTCTGTCTGT
 TACCCAGGGGCTCGGGTGGGAGCGGGGAGGCAGTGGGAGCTCCGTGGCTCCCTACCCCACTGCAG
 CCCACTCGGGCTCCCATCTCTCGGCTTCCACCCAGCCACCCAAAGAAGTGTCTCCAGACCCAGCAC
 AACAGGAGCTGCTTCCCGGCTCTTCTTCTGCGGGGTAGTGTAGCCCGGGTGAGGACAAGGATGGC
 GTCAGTACCAAGTGTCACTCTCCGAGAGCATGAAGATGGAAGCGCGCAGTCCCTGCGCCCGGGCTAG
 CTACCATGGGCACCCAGCCTGCAACACACCACCCGATACCCACCTATCCCTCCTATGTGCCCGCCGAGC
 TCATGACTATGGCAGCAGTCTTCCATCCAGGAGGCTTCTGGGTGGCCCCGCCTCCAGCTTACCCCT
 AAGCAGAGAAGCAAGGCTCGTCTGCTCAGAAGCGGGAGTGTGTCAACTGTGGTGCCACAGCCACCC
 CTCTCTGGCGACGAGATGGCAGGGCCACTACCTGTGCAATGCCTGTGGGCTCTACCACAAGATGAATGG
 ACAGAACCAGCGGCTCATCAAGCCCAAGCGGAGGCTGTCTGCTGCCAGAAGAGCGGGCACCTGTTGTGCA
 AATTGTACAGCACAACCACCTTATGGCGCGGAACGCCAACGGGGACCTGTGTGCAACGCTGTG
 GCCTCTACTACAAGTGCACAATGTTAACAGGCCACTGACCATGAAGAAGGAAGGATCCAGACCCGGAA
 TCGGAAGATGTCCAGCAATCCAAGAAGAGCAAGAAAGGGGCTGAATGTTTCGAGGAGCTCTCCAAGTGC
 ATGCAAGAGAAGTCAACCCCTTCAAGTGGGCTGCCCTGGCTGGACACATGGCACCTGTGGGACACCTCC
 CACCTTTTAGTCACTCTGGACACATCTACCCAGCCACGCCTATCCACCTTCTCCAGTCTCTCTTT
 TGGCCACCCACCCGTCAGCATGGTACTGCCATGGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG226728 representing NM_008090
 Red=Cloning site Green=Tags(s)

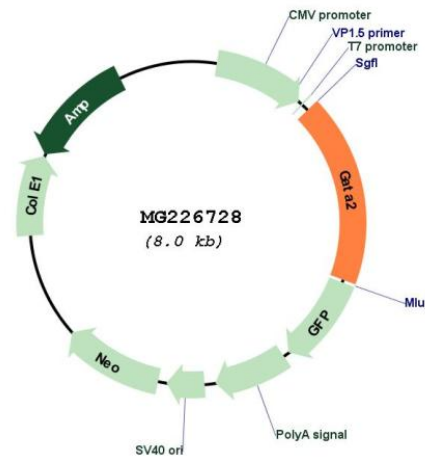
MEVAPEQPRWMAHPAVLNAQHPDSSHPLAHNYMEPAQLLPDEVDVFFNHLDSQGNPYANPAHARARV
 SYSPAHARLTGGQMCRPHLLHSPGLPWL DGGKAAL SAAAHHHSPWTVSPFSKTP LHP SAAGAPGGPLSV
 YPGAAGSGGGSGSSVASLTPTAAHSGSHLFGFPPTPPKEVSPDPSTTGAASPASSAGGSVARGEDKDG
 VKYQVLSSESMKMEGGSPLRPLATMGTQPATHHPIPTYPSYVPAAAHDYGSSLFHPGGFLGGPASSFTP
 KQRSKARSCSEGRECVNCGATATPLWRRDGTGHYLCNACGLYHKMNGQNRPLIKPKRRLSAARRAGTCCA
 NCQTTTTTLWRRNANGDPVCNACGLYYKLHNVRPLTMKKEGIQTRNRKMSKSKKSKGAECFEELSK
 MQEKSPPF SAAALAGHMAPVGHLPF SHSGHILPTPTIHPSSSLSF GHPPSSMVTAMG

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Plasmid Map:


ACCN: NM_008090

ORF Size: 1440 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_008090.5](#), [NP_032116.4](#)

RefSeq Size: 3258 bp

RefSeq ORF: 1443 bp

Locus ID: 14461

UniProt ID: [O09100](#)

Cytogenetics: 6 39.2 cM

Gene Summary: Transcriptional activator which regulates endothelin-1 gene expression in endothelial cells. Binds to the consensus sequence 5'-AGATAG-3'. [UniProtKB/Swiss-Prot Function]