

Product datasheet for **RG238958**

Myelin expression factor 2 (MYEF2) (NM_001301210) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Myelin expression factor 2 (MYEF2) (NM_001301210) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Myelin expression factor 2
Synonyms:	HsT18564; MEF-2; MST156; MSTP156; myEF-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG238958 representing NM_001301210.
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGCGGACGCCAACAAAGGCCGAGGTGCCCGGGCCACTGGTGGCGACAGCCCGCACCTGCAGCCCGCA
GAGCCCGCGGGCAGCCCGCGCGAGAGACCCCGGAGGGCGGAGAAGCAGCAGCCGCAGCACAGC
AGCAGCTCCAATGGCGTTAAAATGGAGAATGATGAATCAGCAAAAAGAGAAAATCTGACTTAAAGGAA
AAATCTACAGGAAGTAAGAAGGCCAATAGATTTTATCCTTATTCAAAAAGCAAGAATTCGGGCACTGGA
GAAAAGAAGGTCAAAATCGTAACAGAGTTTTCATTAGCAACATCCCATATGACATGAAATGGCAAGCT
ATTAAAGATCTAATGAGAGAGAAAGTTGGTGGAGTTACATACGTGGAGCTCTTTAAGGATGCGGAAGGA
AAATCAAGGGGTTGGTGTGGTTGAATCAAAGATGAAGAAATTTGTAAGAAAGCCCTAGAAACTATG
AACAAATATGATCTTAGTGAAGACCCCTAATATTAAGAGGATCCTGATGGAGAAAATGCTCGTAGG
GCATTGCAGCGAACAGGAGGATCATTTCCAGGAGGACACGTCCCTGATATGGGATCAGGGTTGATGAAT
TTACCACCTTCCATACTCAATAATCAAACATTCTCCTGAAGTCATCAGTAATTTGCAGCCGGTAGA
CTTGGTCCACAATTTTGTGGCAATCTTGACTTCAAAGTTGGTTGGAAGAAGCTAAAGGAAGTGTTT
AGCATAGCTGGAAGTGTGAAGCGGGCAGATATTAAGAAGACAAAAGATGGCAAGAGCAGAGGAATGGGC
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GATAGACCTATGCATGTGAAAATGGATGACAAGTCTGTTCCCTCATGAAGAGTACCGTTCCATGATGGT
AAAACACCACAATTACCACGTGGTCTTGGAGGCATTGGGATGGGACTTGGTCCGGGTGGACAGCCTATT
AGTGCCAGCCAGTTGAACATAGGTGGAGTAATGGGAAATTTAGGTCCAGGTGGTATGGGAATGGATGGT
CCAGGTTTTGGAGGAATGAATAGAATGGAGGAGGAATAGGTTTGGTGGTCTGGAAGCAATGAATAGC
ATGGGAGGATTTGGAGGATTTGGCCGAATGGGAGAGCTGTACCGTGGTGGATGACTAGTAGCAGTGGAG
CGAGATTTTGGAGTGGTATATTGGAATAAATCGAGGCTTTGGAGATTCTTTGGTAGACTTGGTGGT
GGAATGGGTAGCATGAACAGTGTGACTGGAGGAATGGGGATGGGACTGGACCGGATGAGTCCAGCTTT
GATAGAATGGGACCAGGTATAGGAGCTATACTGGAAGGAGCATCGATATGGATCGAGGATTTTTATCG
GGTCCAATGGGAAGCGGAATGAGAGAGAGAATAGGCTCCAAGGCAACCAGATATTTGTCAGAAATCTA
CCTTTTGACTTGACTTGGCAGAACTAAAAGAGAAATTCAGTCAGTGTGGTATGTAATGTTTGCAGAA
ATAAAAATGGAGAATGAAAAGTCAAAGGCTGTGGAACAGTCAGATTTGACTCCCAGAATCAGCTGAA
AAAGCCTGCAGAATAATGAATGGCATAAAAATCAGTGGCAGAGAAATTGATGTTTCGCTTGGATCGTAAT
GCA
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAAAC
```

Protein Sequence:

>Peptide sequence encoded by RG238958
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MADANKAEVPGATGGDSPHLQPAEPPGEPREPHPAEAEKQPPQHSSSSNGVKMENDESAAKEEKSDLKE
KSTGSKKANRFPYSKDKNSGTGEKKGPNRNRVFSNIPYDMKWQAIKDLMREKVEVTVYELFKDAEG
KSRGCGVVEFKDEEFVKKALETMNKYDLSGRPLNIKEDPDGENARRALQRTGGSFPGHVPDMGSLMN
LPPSILNPNIPPEVISNLQAGRLGSTIFVANLDFKVGWKKLKEVFSIAGTVKRADIKEDKDGKSRGMG
TVTFEQAIQAVQAIQSMFNGQFLFDRPMHVKMDKSVPHVEYRSHDGKTPQLPRLGGIGMGLGPGGQPI
SASQLNIGVMGNLPGGMGMDGPGFGGMNRIGGGIGFGLLEAMNSMGGFVVGRMGELYRGAMTSSME
RDFGRGDIQINRFGDSFGRLGGMGSMNSVTGGMGMLDRMSSSFDRMGPGIGAILERSIDMDRGFLS
GPMGSGMRERIGSKGNQIFVRNLPFDL TWQKLKEKF SQCGHVMFAEIKMENGKSKGCGTVRFDSPESAE
KACRIMNGIKISGREIDVRLDRNA
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPYSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001301210

ORF Size: 1728 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).

RefSeq: [NM_001301210.1](#), [NP_001288139.1](#)

RefSeq Size: 5335 bp

RefSeq ORF: 1731 bp

Locus ID: 50804

UniProt ID: [Q9P2K5](#)

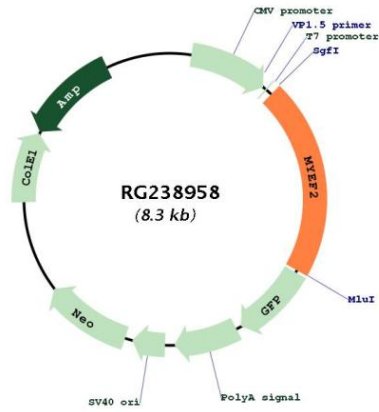
Cytogenetics: 15q21.1

Protein Families: Transcription Factors

MW: 62.4 kDa

Gene Summary: Transcriptional repressor of the myelin basic protein gene (MBP). Binds to the proximal MB1 element 5'-TTGTCC-3' of the MBP promoter. Its binding to MB1 and function are inhibited by PURA (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG238958