

Product datasheet for **RG220717**

Myelin expression factor 2 (MYEF2) (NM_016132) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Myelin expression factor 2 (MYEF2) (NM_016132) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MYEF2
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:

>RG220717 representing NM_016132
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGCGGACGCCAACAGGCCGAGGTGCCCGGGCCACTGGTGGCGACAGCCCGCACCTGCAGCCCGCAG
 AGCCGCCGGGCGAGCCGGCGAGAGCCGACCCCGGAGGCGGAGAAGCAGCAGCCGACAGCACAGCAG
 CAGCTCCAATGGCGTTAAATGGAGAATGATGAATCAGCAAAAAGAGAATCTGACTTAAAGGAAAAA
 TCTACAGGAAGTAAGAAGCCAATAGATTTTCATCCTTATTCAAAAGACAAGAATTCGGGCACTGGAGAAA
 AGAAGGGTCCAAATCGTAACAGAGTTTTTCATTAGCAACATCCCATATGACATGAAATGGCAAGCTATTAA
 AGATCTAATGAGAGAGAAAGTTGGTGAGGTTACATACGTGGAGCTCTTAAAGGATGCGGAAGGAAAAATCA
 AGGGGTTGTGGTGGTTGAATTCAAAGATGAAGAATTTGTAAGAAAGCCCTAGAACTATGAACAAAT
 ATGATCTTAGTGAAGACCCCTTAATATTAAGAGGATCCTGATGGAGAAAATGCTCGTAGGGCATTGCA
 GCGAACAGGAGGATCATTCCAGGAGGACACGTCCCTGATATGGGATCAGGGTTGATGAATTTACCACCT
 TCCATACTCAATAATCCAACATTCCCTCCTGAAGTCATCAGTAATTTGCAGGCCGGTAGACTTGGTTCCA
 CAATTTTTGTTGCCAATCTTGACTTCAAAGTTGGTTGGAAGAAGCTAAAGGAAGTTTCAGCATAGCTGG
 AACTGTGAAGCGGGCAGATATTAAGAAGACAAAGATGGCAAGAGCAGAGGAATGGGCACTGTCACTTTT
 GAGCAAGCAATGAAGCAGTTCAAGCAATTTCTATGTTCAATGGGCGATTTTTATTTGATAGACCTATGC
 ATGTGAAAATGGATGACAAGTCTGTTCCCTCATGAAGAGTACCGTTCACATGATGGTAAAACACCACAATT
 ACCACGTGGTCTTGGAGGCATTTGGATGGGACTTGGTCCGGTGGACAGCCTATTAGTGCCAGCCAGTTG
 AACATAGGTGGAGTAAATGGGAAATTTAGGTCCAGGTGGTATGGGAATGGATGGTCCAGGTTTTGGAGG
 TGAATAGAATTTGGAGGAGGAATAGGGTTTGGTGGTCTGGAAGCAATGAATAGCATGGGAGGATTTGGAGG
 AGTTGGCCGAATGGGAGAGCTGTACCGTGGTGCATGACTAGTAGCATGGAGCGAGATTTTGGACGTGGT
 GATATTGGAATAAATCGAGGCTTTGGAGATTCTTTGGTAGACTTGGCAGTGCAATGATTGGAGGTTTTG
 CAGGAAGAATAGGATCTTCTAACATGGGTCCAGTAGGATCTGGAATAAGTGGTGAATGGGTAGCATGAA
 CAGTGTGACTGGAGGAATGGGGATGGGACTGGACCGGATGAGTTCAGCTTTGATAGAATGGGACCAGGT
 ATAGGAGCTATACTGAAAGGAGCATCGATATGGATCGAGGATTTTTATCGGGTCCAATGGGAAGCGGAA
 TGAGAGAGAGAATAGGCTCCAAAGGCAACCAGATTTTGTGAGAAATCTACCTTTTACTTGGACTTGGCA
 GAACTAAAAGAGAAATTCAGTCAGTGTGGTCAATGATGTTTGCAGAAAATAAAATGGAGAATGGAAG
 TCAAAAGGCTGTGGAACAGTCAGATTTGACTCCCAGAATCAGCTGAAAAAGCCTGCAGAATAATGAATG
 GCATAAAATCAGTGGCAGAGAAATGATGTTTCGCTTGGATCGTAATGCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG220717 representing NM_016132
 Red=Cloning site Green=Tags(s)

MADANKAEVPGATGGDSPHLQPAEPPGEPREPHPAEAEKQPPQHSSSSNGVKMENDESAKEEKSDLKEK
 STGSKKANRFHPYSKDKNSGTGEKKGNRNRVFNISNIPYDMKWQAIKDLMREKVGVEVYVELFKDAEGKS
 RCGGVVEFKDEEFVKKALETMNKYDLSGRPLNIKEDPDGENARRALQRTGGSFPGGHVPMGSLMNLPP
 SILNPNIPPEVISNLQAGRLGSTIFVANLDFKVGWKKLKEVFSIAGTVKRADIKEDKDGKSRMGTVTF
 EQAIEAVQAI SMFNGQFLFDRPMHVKMDKSVPHHEEYRSHDGKTPQLPRGLGGIGMGLPGGGQPI SASQL
 NIGGVMGNLPGGMGMDPGFGGMNRIGGGIGFGLLEAMNSMGGFGGVGRMGEL YRGAMTSSMERDFGRG
 DIGINRGFGDSFGR LGSAMIGGFAGRIGSSNMGPVSGISGGMGSMSVTVGGMGMGLDRMSSSFDRMGPG
 IGAILERSIDMDRGFLSGPMGSMRERIGSKGNQIFVRNLPFDL TWQKLKEKFSQCGHVMFAEIKMENGK
 SKGCGTVRFDSPESA EKACRIMNGIKISGREIDVRLDRNA

TRTRPLE - GFP Tag - V

Restriction Sites:

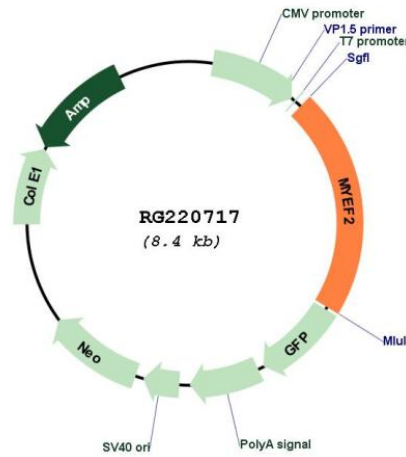
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_016132

ORF Size: 1800 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:	<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_016132.4 , NP_057216.2
RefSeq Size:	4544 bp
RefSeq ORF:	1803 bp
Locus ID:	50804
UniProt ID:	Q9P2K5
Cytogenetics:	15q21.1
Domains:	RRM
Protein Families:	Transcription Factors
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]