

## Product datasheet for **RC238958**

### 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:	Myc-DDK
Symbol:	MYEF2
Synonyms:	HsT18564; MEF-2; MST156; MSTP156; myEF-2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RC238958 representing NM\_001301210  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGGACGCCAACAGGCCGAGGTGCCCGGGCCACTGGTGGCAGACCCGCACCTGCAGCCCGCAG  
 AGCCGCCGGCGAGCCGGCGAGAGCCGACCCCGGAGGCGGAGAAGCAGCAGCCGAGCACAGCAG  
 CAGCTCCAATGGCGTTAAATGGAGAATGATGAATCAGCAAAAAGAGAATCTGACTTAAAGGAAAA  
 TCTACAGGAAGTAAGAAGCCAATAGATTTTCATCCTTATTCAAAGACAAGAATTCGGGCACTGGAGAAA  
 AGAAGGGTCCAAATCGTAACAGAGTTTTTCATTAGCAACATCCCATATGACATGAAATGGCAAGCTATTAA  
 AGATCTAATGAGAGAGAAAGTTGGTGAGGTTACATACGTGGAGCTCTTTAAGGATGCGGAAGGAAAAATCA  
 AGGGGTTGTGGTGGTTGAATTCAAAGATGAAGAATTTGTAAGAAAAGCCCTAGAACTATGAACAAAT  
 ATGATCTTAGTGAAGACCCCTTAATATTAAGAGGATCCTGATGGAGAAAATGCTCGTAGGGCATTGCA  
 GCGAACAGGAGGATCATTCCAGGAGGACAGTCCCTGATATGGGATCAGGGTTGATGAATTTACCACCT  
 TCCATACTCAATAATCCAACATTCCCTCCTGAAGTCATCAGTAATTTGCAGGCCGGTAGACTTGGTTCCA  
 CAATTTTTGTTGCCAATCTTGACTTCAAAGTTGGTTGGAAGAAGCTAAAGGAAGTTTCAGCATAGCTGG  
 AACTGTGAAGCGGGCAGATATTAAGAAGACAAAGATGGCAAGAGCAGAGGAATGGGCACTGTCACTTTT  
 GAGCAAGCAATGAAGCAGTTCAAGCAATTTCTATGTTCAATGGGCGATTTTTATTTGATAGACCTATGC  
 ATGTGAAAATGGATGACAAGTCTGTTCCCTCATGAAGAGTACCGTTCACATGATGGTAAAACACCACAATT  
 ACCACGTGGTCTTGGAGGCATGGGATGGGACTTGGTCCGGTGGACAGCCTATTAGTGCCAGCCAGTTG  
 AACATAGGTGGAGTAAATGGGAAATTTAGGTCCAGGTGGTATGGGAATGGATGGTCCAGGTTTTGGAGGAA  
 TGAATAAATGGAGGAGGAATAGGGTTGGTGGTCTGGAAGCAATGAATAGCATGGGAGGATTTGGAGG  
 AGTTGGCCGAATGGGAGAGCTGTACCGTGGTGCATGACTAGTAGCATGGAGCGAGATTTGGACGTGGT  
 GATATTGGAATAAATCGAGGCTTTGGAGATTCTTTGGTAGACTTGGTGGTGAATGGGTAGCATGAACA  
 GTGTGACTGGAGGAATGGGGATGGGACTGGACCGGATGAGTTCAGCTTTGATAGAATGGGACCAGGTAT  
 AGGAGCTATACTGGAAAGGAGCATCGATATGGATCGAGGATTTTTATCGGGTCCAATGGGAAAGCGGAATG  
 AGAGAGAGAATAGGCTCCAAAGGCAACCAGATATTTGTCAGAAATCTACCTTTTGACTTGACTTGGCAGA  
 AACTAAAAGAGAAATTCAGTCAGTGTGGTCAATGATGTTGTCAGAAATAAAAAATGGAGAATGGAAAGTC  
 AAAAGGCTGTGGAACAGTCAGATTTGACTCCCCAGAATCAGCTGAAAAAGCCTGCAGAATAATGAATGCC  
 ATAAAAATCAGTGGCAGAGAAATGATGTTGCTTGGATCGTAATGCA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC238958 representing NM\_001301210  
 Red=Cloning site Green=Tags(s)

MADANKAEVPGATGGDSPHLQPAEPPGEPREPHPAEAEKQPPQHSSSSNGVKMENDESAAKEEKSDLKEK  
 STGSKKANRFHPYSKDKNSGTGEKKGNRNRVFSNIPYDMKWQAIKDLMREKVGVEVYVELFKDAEGKS  
 RCGGVVEFKDEEFVKKALETMNKYDLSGRPLNIKEDPDGENARRALQRTGGSPGGHVPDMGSLMNLPP  
 SILNPNIPPEVISNLQAGRLGSTIFVANLDFKVGWKKLKEVFSIAGTVKRADIKEDKDGKSRGMGTVTF  
 EQAIEAVQAISMFNQFLFDRPMHVKMDDKSVPHHEEYRSHDGKTPQLPRGLGGIGMGLGPGGQPIASASQL  
 NIGGVMGNLGPGGMGMDGPGFGGMNRIIGGIGFGLLEAMNSMGFGGVMGMELYRGAMTSSMERDFGRG  
 DIGINRGFGDSFGRLLGGMGSMNSVTGGMGMLDRMSSSFDRMGPGIGAILERSIDMDRGLSGPMGSGM  
 RERIGSKGNQIFVRNLPFDL TWQKLKEKFSQCGHVMFAEIKMENGKSKGCGTVRFDSPESA EKACRIMNG  
 IKISGREIDVRLDRNA

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

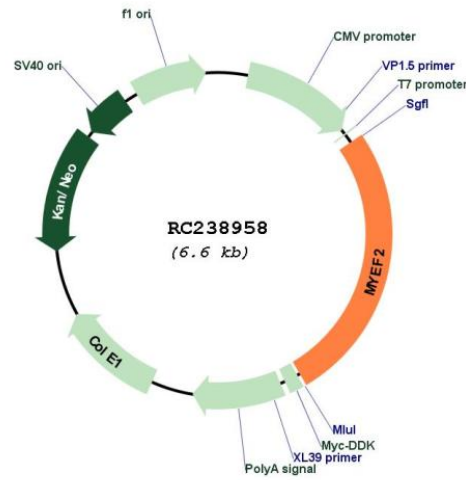
**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001301210  
 ORF Size: 1728 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001301210.1</a> , <a href="#">NP_001288139.1</a>
<b>RefSeq Size:</b>	5335 bp
<b>RefSeq ORF:</b>	1731 bp
<b>Locus ID:</b>	50804
<b>UniProt ID:</b>	<a href="#">Q9P2K5</a>
<b>Cytogenetics:</b>	15q21.1
<b>Protein Families:</b>	Transcription Factors
<b>MW:</b>	62.4 kDa
<b>Gene Summary:</b>	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]