

## Product datasheet for **SC311244**

### MYF5 (NM\_005593) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MYF5 (NM_005593) Human Untagged Clone
Tag:	Tag Free
Symbol:	MYF5
Synonyms:	bHLHc2; EORVA
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC311244 sequence for NM_005593 edited (data generated by NextGen Sequencing) ATGGACGTGATGGATGGCTGCCAGTTCTCACCTTCTGAGTACTTCTACGACGGCTCCTGC ATACCGTCCCCGAGGGTGAATTTGGGGACGAGTTTGTGCCGCGAGTGGCTGCCTTCGGA GCGCACAAAGCAGAGCTGCAGGGCTCAGATGAGGACGAGCACGTGCGAGCGCCTACCGGC CACCACCAGGCTGGTCACTGCCTCATGTGGCCTGCAAAGCCTGCAAGAGGAAGTCCACC ACCATGGATCGGCGGAAGGCAGCCACTATGCGCGAGCGGAGGCGCCTGAAGAAGGTCAAC CAGGCTTTCGAAACCTCAAGAGGTGTACCACGACCAACCCCAACCAGAGGCTGCCCAAG GTGGAGATCCTCAGGAATGCCATCCGCTACATCGAGAGCCTGCAGGAGTTGCTGAGAGAG CAGGTGGAGAACTACTATAGCCTGCCGGGACAGAGCTGCTCGGAGCCCACCAGCCCACC TCCAAGTCTGATGGCATGCCGAATGTAACAGTCCTGTCTGGTCCAGAAAGAGCAGT ACTTTTGACAGCATCTACTGTCCTGATGTATCAAATGTATATGCCACAGATAAAAACCTCC TTATCCAGCTTGATTGCTTATCCAACATAGTGGACCGGATCACCTCCTCAGAGCAACCT GGGTTGCCTCTCCAGGATCTGGCTTCTCTCTCCAGTTGCCAGCACCGATTACAGCCT GCAACTCCAGGGGCTTCTAGTTCAGGCTTATCTATCATGTGCTATGA
	Clone variation with respect to NM_005593.2
Restriction Sites:	Please inquire
ACCN:	NM_005593
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).



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<b>OTI Annotation:</b>	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
<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_005593.1</a> , <a href="#">NP_005584.1</a>
<b>RefSeq Size:</b>	1427 bp
<b>RefSeq ORF:</b>	768 bp
<b>Locus ID:</b>	4617
<b>UniProt ID:</b>	<a href="#">P13349</a>
<b>Cytogenetics:</b>	12q21.31
<b>Domains:</b>	HLH, Basic
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Gene Summary:</b>	Transcriptional activator that promotes transcription of muscle-specific target genes and plays a role in muscle differentiation (PubMed:29887215). Together with MYOG and MYOD1, co-occupies muscle-specific gene promoter core region during myogenesis. Induces fibroblasts to differentiate into myoblasts. Probable sequence specific DNA-binding protein. [UniProtKB/Swiss-Prot Function]