

Product datasheet for **MG220588**

Foxe1 (NM_183298) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Foxe1 (NM_183298) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Foxe1
Synonyms: Titf2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG220588 representing NM_183298
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACGGCCGAGAGCGCGCCGCTCCCCGCCGACGCCGAGACGCTGGCGGCCGTGAAGGAAGAGCGCG
GTGAGGCGGGCGGGCGGGGTCGCGGGGAGGCTGCGGGTTCGCGGCGGGGAGGACGGCGACG
CAAGCGCCCCCTGCAGCGGGGAAGCCGCCCTACAGCTACATCGCGCTCATCGCTATGGCCATCGCGCAC
GCGCCGAGCGCCGCTGACTCTGGCGGCATCTACAAGTTCATCACCAGCGCTTCCCCTTCTACCGCG
ACAACCCAAGAAGTGGCAGAACAGCATCCGCCACAACCTCACCTCAACGACTGCTTCCCAAGATCCC
GCGCGAGCGGGCGCCCGGGCAAGGGCAATTACTGGCGCTCGACCCCAACGCCGAGGACATGTTGAA
AGCGGCAGCTTCTGCGCCGCGCAAGCGCTTCAAGCGCTCGGACCTGTCCACCTACCCGGCCTACATGC
ACGATGACAGCCGCTGCCCGCCGCTGCCGCTGCCGCCATCTTCCCGGGCGCCGTGCCTGCCGAAGGCC
GGCTTACCCGGGCGCCGTCTATGCGGGTACGCGCCGCACTCGCCGCGCCTCCGCGGTCTACTACCC
GCCGCGTCCGCGGGCCCTGCCGGTCTTCGGCTTGGTCCCGAGCGGCCGCTCAGCCCCGATCTGGCC
CCGCGCGTACGCGCCGGCGGCTCGTGCCTTCGCGGCTGCGGCGGGCGGGCGGGCACCGGGAGCTT
CCAGCCGGCGGTGTCACCGAGCGCGGGTCAACCCCGCCGCTATGCCCGCCCTACGCGGGCCCC
GACGGCGGTACCCGAAGGAGCGAGTGCCTTTCGCCGCTGCTGCGGGCCGCTGGCCGGACCGG
CCTCGCCCCCGGGAGCGCGGACGCGGGCGGCTGGAGGCCACGGTGGACTTCTACGGGCGCACGTCGCC
GGCCAGTTCGGAGCGGCGCTGGGACCCTGCTACAATCCCGGTGGGCAACTCGGAGCCGGTGGTGGCGGT
GCCTACCACTCCCGCCACGCCACCGCTACCCGGCGGGTGGATCGGTTCTGTCTGCCATG

ACCGTACGCGGGCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG220588 representing NM_183298
Red=Cloning site Green=Tags(s)

MTAESAPPPPPQPETLA AVKEERGEAAAAGAGVPAEAAGRAGGRRRKRPLQRGKPPYSYIALIAMAIAH
 APERRLTLGGIYKFITERFFPYRDNPKKWQNSIRHNLTLNDCFLKIPREAGRPGKGNWALDPNAEDMFE
 SGSFLRRRKRFRSDLSTYPAYMHDAAAAAAAAAIFPGAVPAARPAYPGAVYAGYAPPLAAPPVYYP
 AASPGPCRVFGLVPERPLSPDLGPAPSAAGGSCAFAAAAGAAGTGSFQPAVCTGARPVNPAAYAAAYAGP
 DGAYPQGASSALFAAAAGRLAGPASPPAGGGSGGVEATVDFYGRTPSPGQFGAALGPCYNPGQLGAGGGG
 AYHSRHATAYPGAVDRFVSAM

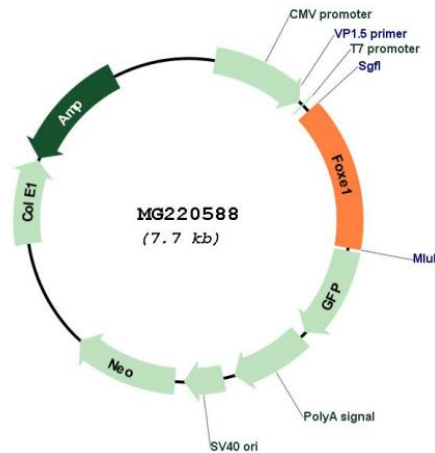
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_183298

ORF Size:	1113 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_183298.2
RefSeq Size:	1116 bp
RefSeq ORF:	1116 bp
Locus ID:	110805
UniProt ID:	Q8R2I0
Cytogenetics:	4 24.68 cM
Gene Summary:	Transcription factor that binds consensus sites on a variety of gene promoters and activate their transcription. Involved in proper palate formation, most probably through the expression of MSX1 and TGFB3 genes which are direct targets of this transcription factor (PubMed:21177256). Also implicated in thyroid gland morphogenesis (PubMed:9697704). May indirectly play a role in cell growth and migration through the regulation of WNT5A expression (By similarity).[UniProtKB/Swiss-Prot Function]