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Product datasheet for MR229310

E2f3 (NM_001289920) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	E2f3 (NM_001289920) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	E2f3
Synonyms:	E2f3a; E2F3b
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR229310 representing NM_001289920 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGCCCTTACAGCAGCAGGCAAAGCGAAGGCTGGAACTGGGCGAGAGTGGCCATCAGTACCTCTCAGATG GTCTAAAGACCCCCAAGGGCAAAGGAAGAGCTGCACTACGGAGTCCCGATAGTCCAAAAAAAAAAACGCG GTATGATACGTCCCTCGGTCTGCTCACCAAGAAGTTCATTCAGCTCCTGAGCCAGTCTCCTGATGGGGTC CTGGATCTGAACAAGGCAGCAGAGGTGCTCAAGGTGCAGAAGAGGAGGATTTACGACATCACCAACGTGC TGGAAGGCATCCACCTCATTAAGAAGAAGTCTAAGAACAACGTCCAGTGGATGGGCTGCAGTCTGTCTGA GGATGGGGGCATGCTGGCCCAGTGTCAAGGCCTGTCCAAAGAAGTGACTGAGCTCAGTCAGGAAGAGAAG AAATTAGATGAGCTGATCCAAAGCTGTACCCTGGACCTCAAACTGTTAACCGAGGATTCAGAGAATCAAA GGTTAGCTTATGTTACATATCAAGATATTCGAAAAATTAGTGGCCTTAAAGACCAAACTGTTATAGTTGT GAAAGCCCCTCCAGAAACGAGACTTGAAGTGCCTGACTCAATAGAGAGCCTACAAATCCATTTGGCAAGT ACCCAAGGGCCCATTGAGGTTTACTTGTGTCCAGAAGAGACGGAAACACACAGACCCATGAAAACAAATA ACCAAGACCACAATGGGAATATCCCCAAGCCCACTTCCAAAGACTTGGCTTCTAACAACTCAGGACATAG TGACTGCTCGGTTTCTACAGCAAACCTCTCTCCTCTGGCCTCCCCAGCCAACCTTTTACAGCAGACTGAG GACCAAATCCCGTCCAACCTTGAAGGACCTTTTGTGAACTTACTGCCTCCCCTGCTCCAAGAGGACTACC TGCTGAGCCTGGGGGAGGAAGAGGGCATCAGTGACCTCTTCGATGCCTATGATTTGGAAAAGCTGCCTCT GGTGGAGGACTTCATGTGTAGT ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

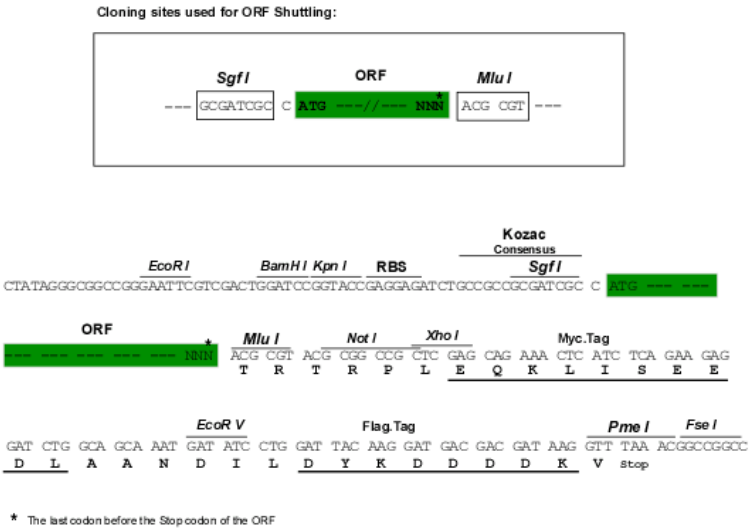
>MR229310 representing NM_001289920
Red=Cloning site Green=Tags(s)

MPLQQQAKRRLELGESGHQYLSDGLKTPKGKGRAALRSPDSPKKKTRYDTSLGLLTKKFIQLLSQSPDGV
LDLNKAAEVLKVQKRRIYDITNVLEGIHLIKKKSKNNVQWMGCSLSEDGGMLAQCQGLSKEVTELSQEEK
KLDELIQSCTLDLKLLTEDSENQRLAYVTYQDIRKISGLKDQTVIVVKAPPETRLEVPDSIESLQIHLAS
TQGPIEVYLCPEETETHRPMKTNNQDHNGNIPKPTSKDLASNNSGHSDCSVSTANLSPLASPANLLQQTE
DQIPSNLEGPFVNLLPPLLQEDYLLSLGEEEGISDLFDAYDLEKLPLVEDFMCS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

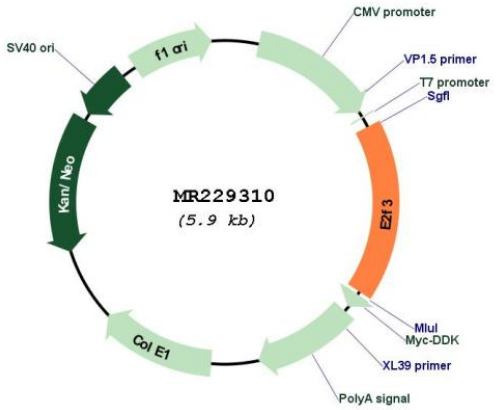
Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001289920

ORF Size: 1002 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:	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_001289920.1, NP_001276849.1
RefSeq Size:	4588 bp
RefSeq ORF:	1005 bp
Locus ID:	13557
Cytogenetics:	13 A3.2
MW:	37.6 kDa
Gene Summary:	Transcription activator that binds DNA cooperatively with DP proteins through the E2 recognition site, 5'-TTTC[CG]CGC-3' found in the promoter region of a number of genes whose products are involved in cell cycle regulation or in DNA replication. The DRTF1/E2F complex functions in the control of cell-cycle progression from G1 to S phase. E2F3 binds specifically to RB1 in a cell-cycle dependent manner. Inhibits adipogenesis, probably through the repression of CEBPA binding to its target gene promoters (PubMed:20176812). [UniProtKB/Swiss-Prot Function]