

Product datasheet for **RC213597**

E2F8 (NM_024680) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	E2F8 (NM_024680) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	E2F8
Synonyms:	E2F-8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC213597 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAGAACGAAAAGGAAAATCTCTTTTGTGAGCCACATAAAAGGGGACTAATGAAAACACCTCTGAAAG
 AATCCACCACAGCAAATATCGTGTGGCAGAGATCCAGCCTGACTTTGGCCCTTTAACACACCTACCAA
 GCCCAAGGAAGGCTCTCAGGGAGAGCCGTGGACACCGACAGCAACCTGAAAATGCTCATCAGTGTGTG
 AGCCCTGAGATCCGCAACAGAGATCAGAAAAGGGTTTGTGACAACAGAAAGTGGATTACCTGAGGCCA
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 TTTAGGATTATTGTGTCATAAGTTCTTAGCAGATATCCTAATTATCCCAACCTGCTGTGAATAATGAC
 ATCTGCCTTGACGAAGTGGCAGAGGAACCTAATGTTGACGTCGACGATTTACGATATCGTGAACGTCC
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 ACACTGGCCCAAATGGACACCCAGACATGTGTTTTGTGGAACCTCCTGGAGTGGAAATTCGGGCAGCTTC
 TGTAAACAGCCGCAAAGACAAGTCTTAAGGGTAAATGAGCCAGAAATTTGTGATGCTGTTTTTGGTGCA
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 AGCCAAATGGACAATCAGTTGCTGTGACAGGGGCAACAGCCTGTTCTGTGACACCCAAAGGGTCACA
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC213597 protein sequence
 Red=Cloning site Green=Tags(s)

MENEKENLFCPHKRGLMKTPLKESTTANIVLAEIQPDFGLTTPTKPEGSQGEPTPTANLKMLISAV
 SPEIRNRDQKRGFLDNRSGLPEAKDCIHEHLSGDEFKESQPSRKEKSLGLLCHKFLARYPNYPNPAVNND
 ICLDEVAEELNVERRRIYDIVNVLESLHMVSRLAKNRYTWHGRHNLNKTGLTKSIGEENKYAEQIMMIK
 KKEYEQEFDFIKSYSIEDHIIKSNTGPNGHDPDMCFVELPGVEFRAASVNSRKDKSLRVMSQKFMFLVLS
 TPQIVSLEVAAKILIGEDHVEDLDKSKFKTKIRRLYDIANVLSLIDLKIKVHVTEERGRKPAFKWTGPEI
 SPNTSGSSPVIHFTPSDLVRRSSKENCANLFFSTRGKPNFTRHPSLIKLVKSIESDRRKINSAPSSPIK
 TNKAESSQNSAPFSPKMAQLAAICKMQLEEQSSESQRQKVKVQLARSGPCKPVAPLDPPVNAEMELTAPSL
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 ATLFPSGYLIPLTQCSSLGAESILSGKENSSALSPNHRIYSSPIAGVIPVTSSSELTAVNFPSFHVTLPLK
 MVSPTSVAAVPVGNPALASSHPVPIQNPSSAIVNFTLQHLGLISPNVQLSASPGSGIVPVPSPRIESVNV
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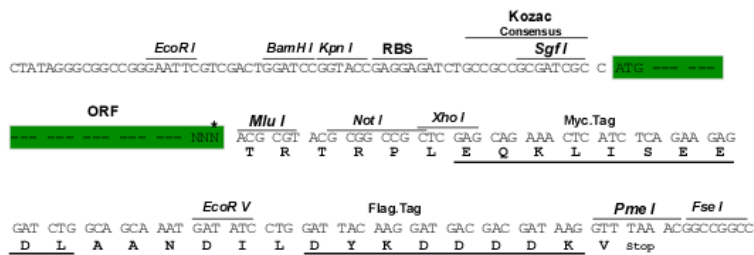
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6604_b08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

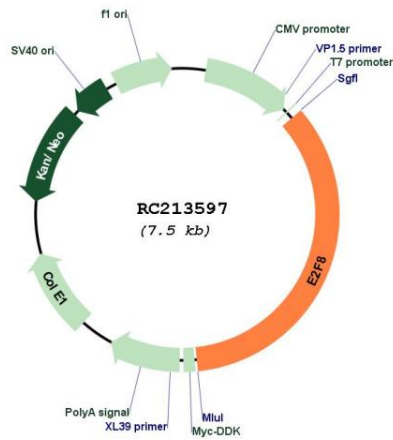
Cloning sites used for ORF Shuttling:



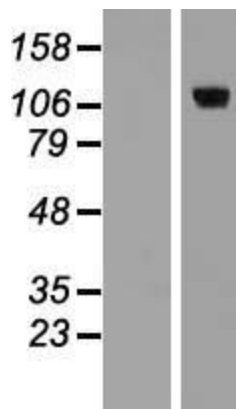
* The last codon before the Stop codon of the ORF

ACCN:	NM_024680
ORF Size:	2601 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_024680.4
RefSeq Size:	3736 bp
RefSeq ORF:	2604 bp
Locus ID:	79733
UniProt ID:	A0AVK6
Cytogenetics:	11p15.1
Protein Families:	Druggable Genome
MW:	94.2 kDa
Gene Summary:	This gene encodes a member of a family of transcription factors which regulate the expression of genes required for progression through the cell cycle. The encoded protein regulates progression from G1 to S phase by ensuring the nucleus divides at the proper time. Multiple alternatively spliced variants, encoding the same protein, have been identified. [provided by RefSeq, Jan 2012]

Product images:



Circular map for RC213597



Western blot validation of overexpression lysate (Cat# [LY411140]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC213597 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).