

## Product datasheet for **RC234976**

### **E2F8 (NM\_001256372) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	E2F8 (NM_001256372) 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:**

>RC234976 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

RCATGGAGAACGAAAAGGAAAATCTCTTTGTGAGCCACATAAAAGGGGACTAATGAAAACACCTCTGAA  
 AGAATCCACCACAGCAAATATCGTGTTGGCAGAGATCCAGCCTGACTTTGGCCCTTAACCACACCTACC  
 AAGCCCAAGGAAGGCTCTCAGGGAGAGCGTGGACACCGACAGCCAACCTGAAAATGCTCATCAGTGCTG  
 TGAGCCCTGAGATCCGCAACAGAGATCAGAAAAGGGTTTGTGGACAACAGAAGTGATTACCTGAGGC  
 CAAAGACTGTATACACGAACACTTATCTGGAGATGAATTTGAGAAATCCCAACCAAGTCGAAAAGAGAAA  
 AGTTTAGGATTATTGTGCATAAGTTCTTAGCACGATATCCTAATTATCCCAACCCTGCTGTGAATAATG  
 ACATCTGCCTTGACGAAGTGGCAGAGGAECTTAATGTTGAACGTCGACGCATTTACGATATCGTGAACGT  
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 AACAAAACCTTGGCACCTTGAAGAGCATCGGGGAGGAGAATAAGTACGCCGAGCAGATTATGATGATCA  
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 AACACTGGCCCAATGGACACCCAGACATGTGTTTTGTGGAACCTCCCTGGAGTGGAAATTCGGGCAGCT  
 TCTGTAACAGCCGCAAAGACAAGTCTTTAAGGGTAATGAGCCAGAAATTTGTGATGCTGTTTTTGGTGT  
 CAACGCCCTCAGATAGTAAGCCTAGAAGTTGCTGCCAAGATTTTAATTGGGGAGGACCATGTGGAAGATT  
 GGATAAAAGCAAGTTTAAAACAAAAATAGGAGTTGTATGATATAGCTAATGTTCTGAGTAGCCTGGAT  
 CTTATCAAGAAAGTTCATGTTACAGAGGAAAGAGGCCGAAAACCAGCTTTCAAATGGACCCGCCAGAAA  
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 TTCAAAAGAGAAGTGTGCCAAAAACCTCTTTCCACAGTGGGAAACAAACTTTACTCGACCCCATCT  
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 TCATCCAGCCCTGGGAATGGTCCCCTGATCCCAGCCCTTGTATCAGCAGTCCCTGATCCTACC  
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 CCGCAACCTTGTCCCATCAGGATACCTAATCCCTCTCACGCAGTGTCTATCCCTGGGGGACAGTCCAT  
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 GTTATTCAGTGACATCATCTGAACTCACTGCTGTTAATTTCCCTCTTTTCATGTAACACCGTTGAAGC  
 TAATGGTCTCACCAACTCCGTGGCAGCCGTACCTGTGGGAACAGCCCGGCTCTCGTTCAAGCCACCC  
 TGTTCCCATCCAGAACCAAGCTCAGCCATTGTAACCTCACCTGCAGCACCTGGGACTCATCTCACC  
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 CCAGCCAAATGGACAATCAGTTGCTGTGACAGGGGCACAACAGCCTGTTCTGTGACACCCAAAGGGTCA  
 CAATTAGTGGCCGAAAGTTTCTTCCGTACCCAGGTGGACCCACCAAGCCAACCAGCTCATCCTGCATGG  
 ATTTTGAGGGTGCTAATAAAACCTCCTTAGGAATCTCTTTGTCCACAGCGAAAACCTGGAAGTCTCAAC  
 AGAGGATGTCCAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC234976 protein sequence  
 Red=Cloning site Green=Tags(s)

```
XWRTKRRKISFVSHIKGD**KHL*KNPPQQISCWQRSSLTLAL*PHLPSPRKALRESRGRHQP*KCSSVL
*ALRSATEIRKGVCLTTEVDYLRPKTVYNTYLEMNLNPNQVEKRKV*DYCVISS*HDILIIPTLL*IM
TSALTKWQRNMLNVDFTIS*TS*RVYIW*AASPKTGTGTGDTISTKPLAP*RASGRRISTPSRL**S
KRKNMSKSLTLLRVTV*RIISSNQTLAQMDTQTQCVLWNSLEWNGQLL*TAAKTSL*G**ARNL*CCFWC
QRLR**A*KLLPRF*LGRTMWKIWIKASLKQKLGCMI*LMF*VAVILSRKFMLQRKEAENQLSNGPAQK
SVQIPVAPAQSFILLPLIWR*DGLQKRTVPKTSFPHVGNQTLLDTHLLSNW*RV*KVIGER*ILRPVALS
RPTKLRVLRILHPSQVKWLSQLFVKCS*KSNQVNPDRK*KYSWQDLDPANQ*PLWTPQ*MLRWS*QHRP
SSSPWEWFP*SPAPCHQQCP*SYLRPLQAHPMPSTCSPLKPTKV*PHPKA*AQRCAPPTLLKLLAQKTPQ
MPPLRRQPMIPQRPVPLPGLEACQHQRGKQRAEPGSQLEKEAQRGQACSRTVVPKRNLKRT*KDLKMS
PQPCSHQDT*SLSRSAHPWGQSPFCLVKKTQVLFPQTTGFTAPQLQVLFQ*HHLNSLLLIFPLFM*HR*S
*WSHQLPWQPYLSGTARLSLQATLFPSRTQAQPL*TSPCSTWDSSHPMCSCLPALGLESFLCLQE*SLLM
SHQKMQALSKEGPPTMTHQSARASQMDNQLL*QGHNSLFL*HPKGHN*WPKVSSVPQVPPSPQAHPAW
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```

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Chromatograms:**

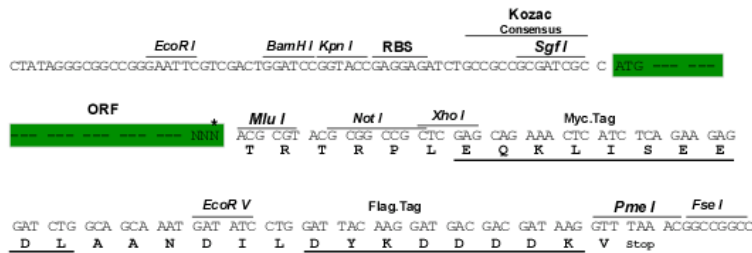
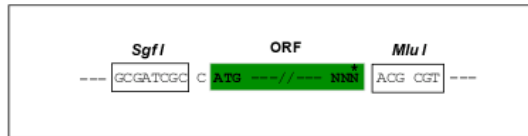
[https://cdn.origene.com/chromatograms/mk6604\\_b08.zip](https://cdn.origene.com/chromatograms/mk6604_b08.zip)

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

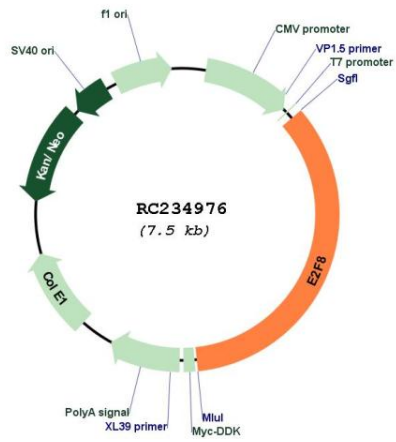
Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

<b>ACCN:</b>	NM_001256372
<b>ORF Size:</b>	2601 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_001256372.1</a> , <a href="#">NP_001243301.1</a>
<b>RefSeq Size:</b>	3482 bp
<b>RefSeq ORF:</b>	2604 bp
<b>Locus ID:</b>	79733
<b>UniProt ID:</b>	<a href="#">A0AVK6</a>
<b>Cytogenetics:</b>	11p15.1
<b>Protein Families:</b>	Druggable Genome
<b>MW:</b>	94.2 kDa
<b>Gene Summary:</b>	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 RC234976