

Product datasheet for **RG211951**

ONECUT2 (NM_004852) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ONECUT2 (NM_004852) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ONECUT2
Synonyms:	OC-2; OC2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG211951 representing NM_004852
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAGGCTGCCTACACCGCCTATCGATGCCTACCAAAGACCTAGAAGGCTGCGCCATGAACCCGGAGC
 TGACAATGAAAAGTCTGGGCACTTTGCACGGGCGGCCGGCGGCGCAGTGGCGGGGGCGCGCGGGGG
 CGGCGGGGGCGCGCGGGGGCCCGGGCCATGAGCAGGAGCTGTGGCCAGCCCCAGCCCCACCACGCG
 GGCCGCGGCGCCGCTGGCTCGCTGCGGGGCCCTCCGCGCCTCCAACCGCGCACCAGGAGCTGGGCACGG
 CGGCAGCGGGCAGCGGCGGCTCGCGCTCGGCCATGGTCACCAGCATGGCCTCGATCTGGACGGCGG
 CGACTACCGGCCGAGCTCTCCATCCCGCTGCACCAGCCATGAGCATGTCTGCGACTCGTCTCCGCT
 GGCATGGGCATGAGCAACACCTACACCACGCTGACACCGCTCCAGCCGCTGCCACCCATCTCCACCGTGT
 CTGACAAGTTCCACCACCCTACCCGCACCACCATCCGCACCACCACCACCACCACCACCAGCGCCT
 GTCGGCAACGTACGCGCAGCTTACCCTCATGCGCGACGAGCGGGGCTCCCGCCATGAACAACCTC
 TACAGTCCCTACAAGGAGATGCCCGGCATGAGCCAGAGCCTGTCCCGCTGGCCGCCACGCGCTGGGCA
 ACGGGCTAGGCGGCTCCACAACGCGCAGCAGAGTCTGCCCAACTACGGTCCGCGGGCCACGACAAAAT
 GCTCAGCCCCAATTGACGCGCACCACACTGCCATGCTGACCCGCGGTGAGCAACACCTGTCCCGCGGC
 CTGGGCACCCACCTGCGGCCATGATGTGCGACCTGAACGGCCTGCACCACCCGGGCCACACTCAGTCTC
 ACGGGCCGGTGTGGCACCCAGTCGCGAGCGGCCACCCTCGTCTCATCGGGCTCGCAGGTGGCCACGTC
 GGGCCAGCTGGAAGAAATCAACACCAAAGAGGTGGCCAGCGCATCACAGCGGAGCTGAAGCGCTACAGT
 ATCCCCAGGCGATCTTTGCGCAGAGGGTGTGTGCCGGTCTCAGGGACTCTCTCCGACTGCTCCGGA
 ATCCAAAACCGTGGAGTAACTCAAATCTGGCAGGGAGACCTCCGCAGGATGTGGAAGTGGCTTCAGGA
 GCGCGAGTCCAGCGCATGTCCGCCTTACGCCTGGCAGCGTGCAAACGCAAAGAGCAAGAACCAAACAAA
 GACAGGAACAATCCAGAAGAAGTCCCGCCTGGTGTCTACTGACCTCCAACGCCGAACACTCTTCGCCA
 TCTTCAAGGAGAACAAACGCCCGTCAAAGGAGATGCAGATCACCATTTCCAGCAGCTGGGCTGGAGCT
 CACAACCGTCAGCAACTTCTTATGAACGCCCGCGCGCAGCCTGGAGAAGTGGCAAGACGATCTGAGC
 ACAGGGGGCTCCTCGTCCACCTCCAGCAGTGTACCAAAGCA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG211951 representing NM_004852
 Red=Cloning site Green=Tags(s)

MKAAYTAYRCLTKDLEGCAMNPELTMESLGLHGPAGGGSGGGGGGGGGGGGGPGHEQELLASPSPHHA
 GRGAAGSLRGPPTAHQELGTAASAAAAASRSAMVTSMASILDGGDYRPELSIPLHHAMSMSCDSSPP
 GMGMSNTYTTLTPLQPLPISTVSDKFHHPHHPHHHHHHHHHQRLSGNVSGSFTLMRDERGLPAMNNL
 YSPYKEMPGMSQSLSPLAATPLGNLGLHNAQQSLPNYGPPGHDKMLSPNFDAHHTAMLTRGEQLSRG
 LGTPPAAMMSHLNGLHHPGHTQSHGPVLAAPSRERPPSSSSGSQVATSGQLEEINTKEVAQRITAEKRY
 IPQAIFAQRVLCRSQGLSDLLRNPKPWSKLSGRETFRRMVKWLQEPEFQRMSALRLAACKRKEQEPNK
 DRNNSQKSRSLVFTDLQRRTLFAIFKENKRPSKEMQITISQQLGLELTTVSNFFMNARRRSLEKWQDDL
 TGGSSSTSSTCTKA

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_004852

ORF Size: 1512 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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).

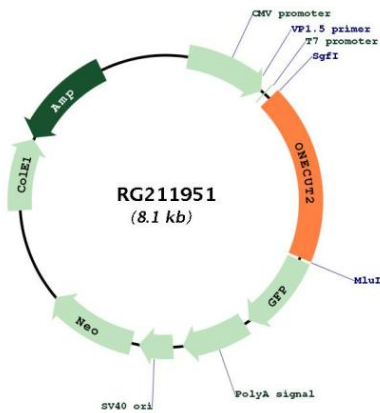
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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_004852.3](#)

RefSeq Size: 16142 bp
RefSeq ORF: 1515 bp
Locus ID: 9480
UniProt ID: [O95948](#)
Cytogenetics: 18q21.31
Protein Families: Transcription Factors
Gene Summary:

This gene encodes a member of the onecut family of transcription factors, which are characterized by a cut domain and an atypical homeodomain. The protein binds to specific DNA sequences and stimulates expression of target genes, including genes involved in melanocyte and hepatocyte differentiation. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG211951