

Product datasheet for **RG218219**

HNF6 (ONECUT1) (NM_004498) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HNF6 (ONECUT1) (NM_004498) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HNF6
Synonyms:	HNF-6; HNF6; HNF6A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG218219 representing NM_004498
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAACGCGCAGCTGACCATGGAAGCGATCGGCGAGCTGCACGGGTGAGCCATGAGCCGGTGCCCGCCC
 CTGCCGACCTGCTGGGCGCAGCCCCACGCGCGCAGCTCCGTGGCGCACCGCGGAGCCACCTGCCCCC
 CGCGCACCCGCGCTCCATGGGCATGGCGTCCCTGCTGGACGGCGCAGCGCGGGGAGATTACCACCAC
 CACCACGGGCCCTGAGCACAGCTGGCCGGCCCCCTGCATCCCACCATGACCATGGCCTGCGAGACTC
 CCCCAGGTATGAGCATGCCACCACCTACACCACCTTGACCCCTCTGCAGCCGCTGCCTCCCATCTCCAC
 AGTCTCGGACAAGTTCACCCACCATCACCACCACCACCATCACCACCACCACCCGACCACCACCAGCGC
 CTGGCGGCAACGTGAGCGGTAGCTTACGCTCATGCGGGATGAGCGGGGCTGGCTCCATGAATAACC
 TCTATACCCCTACCACAAGGACGTGGCCGGCATGGGCCAGAGCCTCTCGCCCTCTCCAGCTCCGGTCT
 GGGCAGCATCCAACTCCAGCAAGGGCTCCCCACTATGCCACCCGGGGCCGCCATGCCACCCGAC
 AAGATGCTCACCCCAACGGCTTCAAGCCACACCCGGCCATGCTCGGCCGCCACGGGAGCAGCACC
 TCACGCCACCTCGGCCGCATGGTGCCATCAACGGCCTTCTCCGCACCATCCCCACGCCACCTGAA
 CGCCAGGGCCACGGGCAACTCCTGGGCACAGCCGGGAGCCAAACCTTCGGTGACCGCGCGCAGGTC
 AGCAATGGAAGTAATTCAGGTCAGATGGAAGAGATCAATACCAAAGAGGTGGCGCAGCGTATCACCACCG
 AGCTCAAGCGCTACAGCATCCCACAGGCCATCTTCGCGCAGAGGGTGTCTGCCGCTCCCAGGGGACCT
 CTCGGACTGTGCGCAACCCCAAACCTGGAGCAAACAAATCCGGCCGGGAGACCTCCGGAGGATG
 TGAAGTGGCTGCAGGAGCCGGAGTTCAGCGCATGTCCGCGCTCCGCTTAGCAGCATGCAAAAGGAAAG
 AACAGAACATGGGAAGGATAGAGGCAACACACCCAAAAGCCAGGTTGGTCTTACAGATGCCAGCG
 TCGAACTTACATGCAATATTCAAGGAAAATAAGCGTCCATCCAAGAATTGCAAATCACCATTTCCAG
 CAGCTGGGTTGGAGCTGAGCACTGTGCAAACTTCTTTCATGAACGCAAGAAGGAGGAGTCTGGACAAGT
 GGCAGGACGAGGGCAGCTCCAATCAGGCAACTCATCTTTCATCAAGCACTTGTACCAAAGCA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG218219 representing NM_004498
 Red=Cloning site Green=Tags(s)

MNAQLTMEAIGELHGVSHPEVPPADLLGGSPHARSSVAHRGSHLPPAHPRSMGMASLLDGGSGGGDYHH
 HHRAPEHSLAGPLHPTMTMACETPPGMSMPTTYTTLTPLQLPPISTVSDKFPHHHHHHHHHHHPHHQR
 LAGNVSGSFTLMRDERGLASMNNLYTPYHKDVAGMGQSL SPLSSSGLGSIHNSQQGLPHYAHPGAAMPTD
 KMLTPNGFEAHPAMLGRHGEQHLTPTSAGMVPINGLPPHHPAHLNAQGHGQLLGTAREPNPSVTGAQV
 SNGSNSGQMEEINTKEVAQRITTELKRYIPQAIFAQRVLCRSQGTLDLLRNPKPWSKLSGRETFRRM
 WKWLQEPEFQRMSALRLAACKRKEQEHGKDRGNTPKKPRLVFTDVQRRTLHAIKFKENKRPKELQITISQ
 QLGLELSTVSNFFMNARRRSLDKWQDEGSSNSGNSSSSSSTCTKA

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_004498

ORF Size: 1395 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_004498.1](#), [NP_004489.1](#)

RefSeq Size: 1925 bp

RefSeq ORF: 1398 bp

Locus ID: 3175

UniProt ID: [Q9UBC0](#)

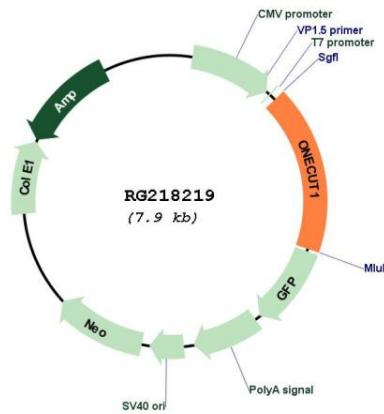
Cytogenetics: 15q21.3

Protein Families: ES Cell Differentiation/IPS, Transcription Factors

Protein Pathways: Maturity onset diabetes of the young

Gene Summary: This gene encodes a member of the Cut homeobox family of transcription factors. Expression of the encoded protein is enriched in the liver, where it stimulates transcription of liver-expressed genes, and antagonizes glucocorticoid-stimulated gene transcription. This gene may influence a variety of cellular processes including glucose metabolism, cell cycle regulation, and it may also be associated with cancer. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2012]

Product images:



Circular map for RG218219