

Product datasheet for **RG216588**

HNF 4 alpha (HNF4A) (NM_001030004) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HNF 4 alpha (HNF4A) (NM_001030004) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HNF 4 alpha
Synonyms:	FRTS4; HNF4; HNF4a7; HNF4a8; HNF4a9; HNF4alpha; MODY; MODY1; NR2A1; NR2A21; TCF; TCF-14; TCF14
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG216588 representing NM_001030004 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGTCAGCGTGAACGCGCCCTCGGGCTCCAGTGGAGAGTTCTTACGACACGTCCCCATCAGAAGGCA
CCAACCTCAACGCGCCCAACAGCCTGGGTGTCAGCGCCCTGTGTGCCATCTGCGGGGACCGGGCCACGGG
CAAACACTACGGTGCCTCGAGCTGTGACGGCTGCAAGGGCTTCTCCGGAGGAGCGTGCGGAAGAACCAC
ATGTACTCCTGCAGATTTAGCCGGCAGTGCCTGGTGGACAAGACAAGAGGAACCAAGTCCCGCTACTGCA
GGCTCAAGAAATGCTTCCGGGCTGGCATGAAGAAGGAAGCCGTCCAGAATGAGCGGGACCGGATCAGCAC
TCGAAGGTCAAGCTATGAGGACAGCAGCCTGCCCTCCATCAATGCGCTCCTGCAGGCGGAGGTCCTGTCC
CGACAGATCACCTCCCCGTCTCCGGGATCAACGGCGACATTCGGGCGAAGAAGATTGCCAGCATCGCAG
ATGTGTGTGAGTCCATGAAGGAGCAGCTGCTGGTTCTCGTTGAGTGGGCCAAGTACATCCCAGCTTCTG
CGAGCTCCCCCTGGACGACCAGGTGGCCCTGCTCAGAGCCATGCTGGCGAGCACCTGCTCCTGGAGCC
ACCAAGAGATCCATGGTGTTCAGGACGTGCTGCTCCTAGGCAATGACTACATTGTCCCTCGGCACTGCC
CGGAGCTGGCGGAGATGAGCCGGGTGCCATACGCATCCTTGACGAGCTGGTGTGCCCTTCAGGAGCT
GCAGATCGATGACAATGAGTATGCCTACCTCAAAGCCATCATCTTCTTTGACCCAGATGCCAAGGGGCTG
AGCGATCCAGGGAAGATCAAGCGCTGCGTTCCAGGTGCAGGTGAGCTTGGAGGACTACATCAACGACC
GCCAGTATGACTCGCGTGCCGCTTTGGAGAGCTGCTGCTGCTGCTGCCACCTTGACAGCATCACCTG
GCAGATGATCGAGCAGATCCAGTTCAAGCTTTCGGCATGGCCAAGATTGACAACCTGTTGCAGGAG
ATGCTGCTGGGAGGTCCGTGCCAAGCCAGGAGGGCGGGTTGGAGTGGGGACTCCCCAGGAGACAGGC
CTCACACAGTGAGCTCACCCCTCAGCTCCTTGCTTCCCACTGTGCCGCTTTGGCCAAGTTGCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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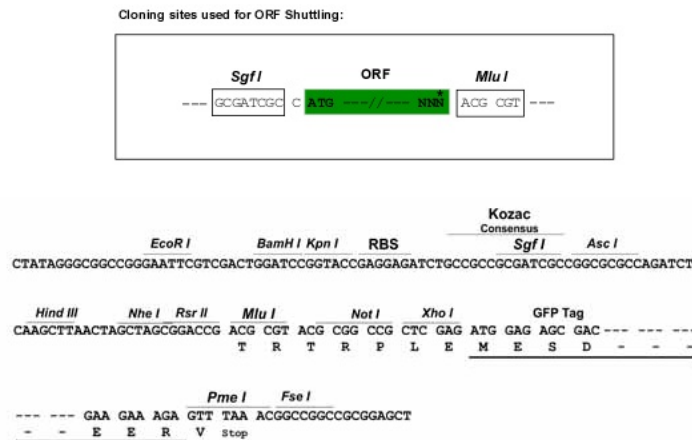
Protein Sequence: >RG216588 representing NM_001030004
 Red=Cloning site Green=Tags(s)

MVSVNAPLGAPVESSYDTSPSEGTNLNAPNSLGVLSALCAICGDRATGKHYGASSCDGCKGFFRRSVRKNH
 MYSCRFSRQCVDKDRNQCRYCRLKKCFRAGMKKEAVQNERDRISTRSSYEDSSLPSINALLQAEVLS
 RQITSPVSGINGDIRAKKIASIADVCESMKEQLLVLEWAKYIPAFCELPDQVALLRAHAGEHLLLGA
 TKRSMVFKDVLVLLGNDYIVPRHCPPELAEMSRVSIIRILDELVLPFQELQIDDNEYAYLKAIIFDPDAKGL
 SDPGKIKRLRSQVQVSLLEDYINDRQYDSRGRFGELLLLLPTLQSIWQMIQIQIKLFGMAKIDNLLQE
 MLLGGPCQAQEGRGWSDSPGDRPHTVSSPLSSLASPLCRFGQVA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001030004

ORF Size: 1185 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_001030004.3](#)

RefSeq Size: 1192 bp

RefSeq ORF: 1188 bp

Locus ID: 3172

UniProt ID: [P41235](#)

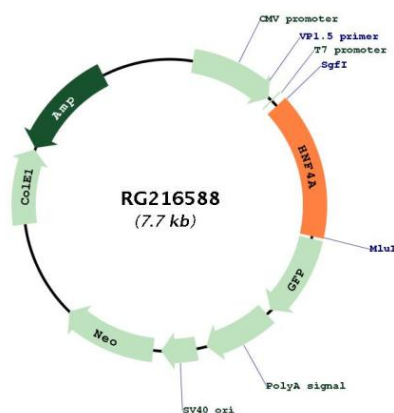
Cytogenetics: 20q13.12

Protein Families: Druggable Genome, ES Cell Differentiation/IPS, Nuclear Hormone Receptor, Transcription Factors

Protein Pathways: Maturity onset diabetes of the young

Gene Summary: The protein encoded by this gene is a nuclear transcription factor which binds DNA as a homodimer. The encoded protein controls the expression of several genes, including hepatocyte nuclear factor 1 alpha, a transcription factor which regulates the expression of several hepatic genes. This gene may play a role in development of the liver, kidney, and intestines. Mutations in this gene have been associated with monogenic autosomal dominant non-insulin-dependent diabetes mellitus type I. Alternative splicing of this gene results in multiple transcript variants encoding several different isoforms. [provided by RefSeq, Apr 2012]

Product images:



Circular map for RG216588