

Product datasheet for **RC219703**

HNF4 gamma (HNF4G) (NM_004133) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HNF4 gamma (HNF4G) (NM_004133) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HNF4 gamma
Synonyms:	NR2A2; NR2A3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC219703 representing NM_004133
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACATGGCAAATTACAGTGAAGTTTTGGACCAACTTACACAACCTTTGGAGTTGAAACTATGCAGA
 TTCTATATAATCAAGTGATAGTTCTGCCCCAGAGACAAGTATGAATACCACAGACAACGGTGTCAACTG
 TCTGTGTGCTATCTGTGGGGACAGAGCAACAGGAAAACTATGGGGCATCCAGCTGTGATGGGTGCAAG
 GGTTCCTCAGACGCAGCATTCTGAAGAGTCACGTTTATTCTTGCAGTTTCAAGTGGCAATGTGTTGTTG
 ACAAGGACAAAAGGAATCAATGTAGATATTGTCGATTAAGAAAGTGTGTTAGAGCGGGAATGAAAAAGA
 AGCTGTACAAAATGAACGTGACAGAATAAGCACCAGAAGAAGCACATTTGATGGCAGCAACATCCCTCC
 ATTAACACACTGGCACAAGCTGAAGTTCGGTCTCGCCAGATCTCAGTCTCAAGCCCTGGGTCAAGCACTG
 ACATAAACGTTAAGAAAATTGCAAGTATTGGTGTGCTGTGAATCTATGAAACAGCAGCTCTTAGTCTT
 GGTGGAATGGGCTAAATATATTCCTGCCTTCTGTGAATTACCATTGGATGATCAGGTGGCACTGTTGAGA
 GCTCACGCAGGGGAGCACTTACTGCTTGGAGCTACAAAGAGATCCATGATGTATAAAGATATTTTGCCTT
 TGGGAAACAACATGTTATTCACCGCAACAGCTGTGAAGTTGAGATTAGCCGTGTGGCAATCGTGTCTT
 AGATGAGCTGGTTAGACCATTTCAAGAAATCCAGATTGATGACAAATGAGTATGCTTGTGTTAAAGGCAAT
 GTATTTTTTGTATCCAGATGCAAAAGGGCTAAGCGATCCAGTAAAAATTAAGAACATGAGGTTCCAAGTGC
 AGATCGGTTTGGAGGACTACATCAATGATCGGCAGTATGACTCCCGGGGGAGGTTTGGAGAGTTGCTTCT
 GCTCCTGCCACACTGCAGAGCATCACGTGGCAATGATTGAGCAAAACAGTTTGTAACTTTTTGGG
 ATGGTTAAAATTGACAATCTACTTCAGGAAATGCTATTAGGTGGGCTTCCAATGATGGCAGTCATCTCC
 ATCATCCAATGCATCCACATTTGCTCAAGACCATAACTGGACAAACTATACTTTTAGGTCCTGATGTC
 AACACTGGTTTATGCAGACCAGATCTCAACTCCTGAAACCCCACTCCCTTCCCACCACAAGGCTCTGGG
 CAAGAACAGTACAAAATAGCTGCAAAACCAAGCATCAGTCATTTACACCAGCATCTCTCCAAACAAAAGC
 AATTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC219703 representing NM_004133
 Red=Cloning site Green=Tags(s)

MDMANYSEVLDPTYTTLEFETMQILYNSSDSSAPETSMNTTDNGVNCLCAICGDRATGKHYGASSCDGCK
 GFFRRSIRKSHVYSCRFSRQCVVDKDKRNQCRYCRLRKCFRAGMKKEAVQNERDRISTRSTFDGNSNIPS
 INTLAQAEVRSRQISVSSPGSSTDINVKKIASIGDVCESMKQQLLVLEWAKYIPAFCELPDDQVALLR
 AHAGEHLLLGATKRSMYKIDILLGNVYIHRNSCEVEISRANRVLDELVRPFQEIQIDDNEYACLKAI
 VFFDPDAKGLSDPVKIKNMFQVQIGLEDYINDRQYDSRGRFGEILLPTLQSIWQMIQIQVVKLFG
 MVKIDNLLQEMLLGGASNDGSHLHHPMHPHLSQDPLTGQTILLGPMSTLVHADQISTPETPLPSPPGSGS
 QEYKIAANQASVISHQHLKQKQL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8018_h07.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_004133

ORF Size: 1335 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_004133.4](#), [NP_004124.4](#)

RefSeq Size: 4101 bp

RefSeq ORF: 1368 bp

Locus ID: 3174

UniProt ID: [Q14541](#)

Cytogenetics: 8q21.13

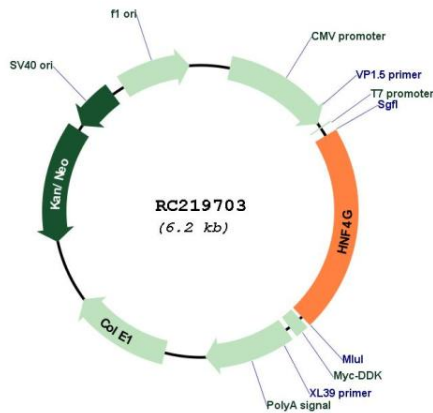
Protein Families: Druggable Genome, Nuclear Hormone Receptor, Transcription Factors

Protein Pathways: Maturity onset diabetes of the young

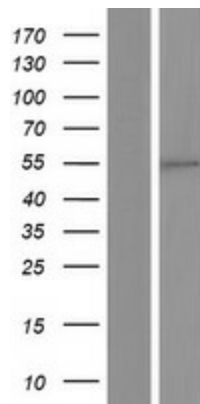
MW: 49.9 kDa

Gene Summary: Transcription factor. Has a lower transcription activation potential than HNF4-alpha. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC219703



Western blot validation of overexpression lysate (Cat# [LY418192]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC219703 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).