

Product datasheet for **MG227662**

Hnf4a (NM_008261) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hnf4a (NM_008261) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Hnf4a
Synonyms:	Hnf; HNF-; HNF-4; Hnf4; Hnf4alpha; MODY; MODY1; Nr; Nr2a1; TCF-14; Tcf14
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG227662 representing NM_008261
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCGACTCTCTAAAACCTTGCCGGCATGGATATGGCCGACTACAGCGCTGCCCTGGACCCAGCCTACA
 CCACCCTGGAGTTTGAAAATGTGCAGGTGTTGACCATGGGCAATGACACGTCCCCATCTGAAGGTGCCAA
 CCTCAATTCATCCAACAGCCTGGCGCTCAGTGCCTGTGCGCCATCTGTGGCGACCGGGCCACCGGCAAA
 CACTACGGAGCCTCGAGCTGTGACGGCTGCAAGGGTTCTTCAGGAGGAGCGTGAGGAAGAACCACATGT
 ACTCCTGCAGGTTTAGCCGACAATGTGTGGTAGACAAAGATAAGAGGAACCAGTGTGTTACTGCAGGCT
 TAAGAAGTGCTCCGGGCTGGCATGAAGAAGGAAGCTGTCCAAAATGAGCGGGACCGGATCAGCACGCGG
 AGGTCAAGCTACGAGGACAGCAGCTGCCCTCCATCAACGCGCTCCTGCAGGCAGAGTTCTGTCCCAGC
 AGATCACCTCTCCCATCTCTGGGATCAATGGCGACATTCGGGCAAAGAAGATTGCCAACATCACAGACGT
 GTGTGAGTCTATGAAGGAGCAGCTGCTGGTCTGGTTCGAGTGGGCAAGTACATCCCGGCCCTTCTCGGAA
 CTCTTCTGGATGACCAGGTGGCGCTGCTCAGGGCCACGCCGGTGAGCATCTGTGCTTGGAGCCACCA
 AGAGGTCCATGGTGTAAAGGACGTGCTGCTCCTAGGCAATGACTACATCGTCCCTCGGCACTGTCCAGA
 GCTAGCGGAGATGAGCCGTGTGTCCATCCGCATCCTCGATGAGCTGGTCTGCCCTTCCAAGAGCTGCAG
 ATTGATGACAATGAATATGCCTGCCTCAAAGCCATCATCTTCTTGATCCAGATGCCAAGGGGCTGAGTG
 ACCCGGGCAAGATCAAGCGGCTGCGGTACAGGTGCAAGTGAGCCTGGAGGATTACATCAACGACCGGCA
 GTACGACTCTCGGGCCGCTTTGGAGAGCTGCTGCTGCTGTTGCCACGCTGCAGAGCATCACCTGGCAG
 ATGATCGAACAGATCCAGTTCATCAAGCTCTTCGGCATGGCCAAGATTGACAACCTGCTGCAGGAGATGC
 TTCTCGGAGGGTCTGCCAGTGATGCACCCACACCCACCCACCCCTGCACCCTCACCTGATGCAAGAACA
 CATGGGCACCAATGTATTGTTGCTAACACGATGCCCTCTCACCTCAGCAATGGACAGATGTGTGAGTGG
 CCCCAGCCAGGGGGCAGGCAGCCACTCCCGAGACTCCACAGCCATCACCACCAAGTGGCTCGGGATCTG
 AATCCTACAAGCTCCTGCCAGGAGCCATCACCACCATCGTCAAGCCTCCCTCTGCCATTCGCCAGCCAAC
 GATCACCAAGCAAGAAGCCATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG227662 representing NM_008261
 Red=Cloning site Green=Tags(s)

MRLSKTLAGMDMADYSAALDPAYTTLEFENVQVLTMGNDTSPSEGANLNSSNSLGVLSALCAICGDRATGK
 HYGASSCDGCKGFFRRSVRKNHMYSCRFSRQCVVDKDKRNQCRYCRLKKCFRAGMKKEAVQNERDRISTR
 RSSYEDSSLPSINALLQAEVLSQQITSPISGINGDIRAKKIANITDVCESMKEQLLVLEWAKYIPAFCE
 LLLDDQVALLRAHAGEHLLL GATKRSVMFKDVLVLLGNDYIVPRHCPELAEMSRVSRIRLDELVLFPQELQ
 IDDNEYACLKAIIFDPAKGLSDPGKIKRLRSQVQVSLLEDYINDRQYDSRGRFGELLLLLPTLQSIWQ
 MIEQIQFIKLFMAKIDNLLQEMLLGGSASDAPHTHHPLHPLMQEHMGTNVIVANTMPSHLSNGQMCEW
 PRPRGQAATPETPQPSPPSGSGSESYKLLPGAITTIKPPSAIPQPTITKQEI

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_008261

ORF Size: 1422 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.

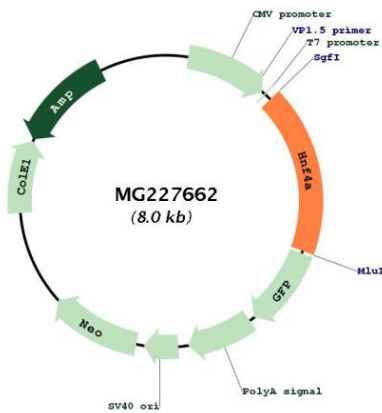
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_008261.3](#)
 RefSeq Size: 4371 bp
 RefSeq ORF: 1425 bp
 Locus ID: 15378
 UniProt ID: [P49698](#)
 Cytogenetics: 2 84.32 cM

Gene Summary: The protein encoded by this gene is a transcription factor involved in the development of the pancreas, liver, kidney, and intestines. The encoded protein also functions to maintain glucose homeostasis. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2015]

Product images:



Circular map for MG227662