

Product datasheet for **RG207752**

NKX2.8 (NKX2-8) (NM_014360) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NKX2.8 (NKX2-8) (NM_014360) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NKX2.8
Synonyms:	Nkx2-9; NKX2.8; NKX2H
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG207752 representing NM_014360 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCACCTCTGGACGCCTGAGCTTCACCGTGCGCAGCCTTCTAGATTTACCCGAGCAGGACGCGCAAC
ACCTGCCGAGGCGGGAGCCAGAACCACGCGCCCCCAGCCCGACCCCTGCGCCGCTGGCTGGATTTCGGA
GCGCGGCCACTACCTTCCTCGGACGAGAGCAGCCTGGAGACCAGCCCGCCAGACTCGTCGCAGCGGCCG
TCCGCTAGGCCCGCGTCTCCGGGCTCGGACGCCGAGAAAAGGAAGAAGCGCGGGGTCTATTCTCCAAGG
CGCAGACGCTGGAGTTGGAGCGCGCTTCGGCAGCAGCGGTACCTGTCTGCGCCGAGCGCGAGCAGCT
GGCGAGCCTGCTTCGCCTCACGCCACGCAGGTCAAGATCTGGTTCCAGAATCATCGCTACAAGCTGAAG
CGCGCTCGCGCTCCAGGGCGGGCGGAGTCGCCTGACCTGGCAGCATCCGCCGAGCTGCACGCCGCGCCCG
GCCTGCTGCGTCGCTGGTGGTGGCGGTGCTTGTTCGCGACGGGCAGCCGTGCGGCGGGCGGCGGTGG
CGAGGTGGGAACCGCGCGGCCAGGAGAAGTGGCGGCCCTCCAGCCGCCCTGCCCTCTGCCGGG
TACCCTGCCTTCGGTCCCGGCTCGGCGCTTGGCTCTTCCCCGCCTACCAGCACTTAGCATCCCCGCC
TGGTCTCCTGGAAGTGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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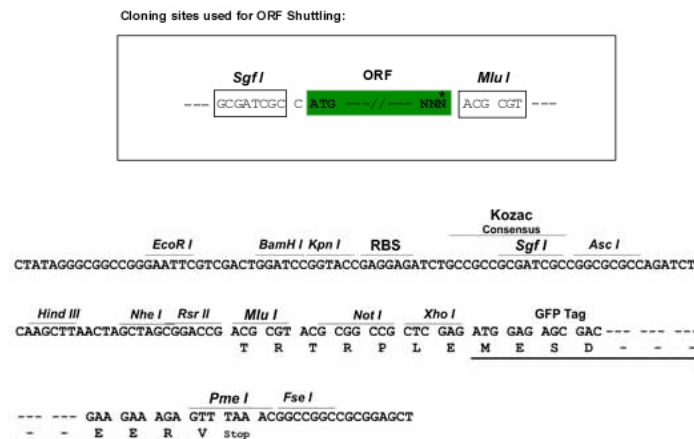
Protein Sequence: >RG207752 representing NM_014360
 Red=Cloning site Green=Tags(s)

MATSGRLSFTVRSLLDLPEQDAQHLPREPEPRAPQPDPCAAWLDSERGHYPSSDESSLETSPPDSSQRP
 SARPASPGSDAEKRKRRLVLFKAQTLERFRQRYLSAPEREQLASLLRLTPTQVKIWFQNHRYKLK
 RARAPGAESPDLAASAEHLAAPGLLRVVVPVLVRDGPCCGGGGGGEVGTAAAEKCGAPPAACPLPG
 YPAFGPGSALGLFPAYQHLASPALVSNW

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_014360

ORF Size: 717 bp

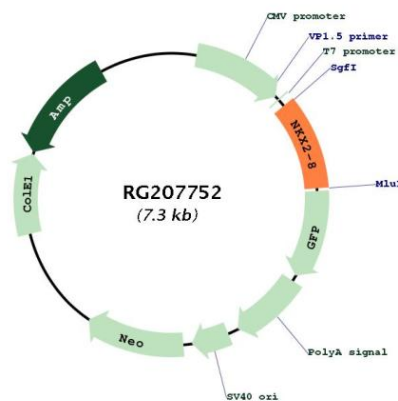
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<ol style="list-style-type: none"> 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_014360.4</u>
RefSeq Size:	1857 bp
RefSeq ORF:	720 bp
Locus ID:	26257
UniProt ID:	<u>O15522</u>
Cytogenetics:	14q13.3
Protein Families:	Druggable Genome, Transcription Factors
Gene Summary:	<p>The protein encoded by this gene is a homeobox-containing developmental regulator associated with liver development. The encoded protein binds to the alpha-fetoprotein (AFP) gene promoter and increases the expression of AFP. This gene is overexpressed in some lung cancers and is linked to poor patient survival, possibly due to its resistance to cisplatin. This gene is aberrantly methylated in pancreatic cancer, deleted in squamous cell lung carcinomas, and acts as a tumor suppressor in esophageal cancer. Mutations in this gene may also be a cause of neural tube defects. [provided by RefSeq, Dec 2015]</p>

Product images:



Circular map for RG207752