

Product datasheet for MG227494

Nkx2-2 (NM_001077632) Mouse Tagged ORF Clone

Product data:

OriGene Technologies, Inc.

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Product Type:	Expression Plasmids
Product Name:	Nkx2-2 (NM_001077632) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nkx2-2
Synonyms:	Nkx-2.2; Nkx2.2; tinman
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG227494 representing NM_001077632 Red=Cloning site Blue=ORF Green=Tags(s)
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGCC</mark>
	ATGTCGCTGACCAAACACAAGACGGGGTTTTCAGTCAAGGACATCTTGGACCTTCCGGACACCAACGATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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	2-2 (NM_001077632) Mouse Tagged ORF Clone – MG227494
Protein Sequence:	>MG227494 representing NM_001077632 Red=Cloning site Green=Tags(s)
	MSLTNTKTGFSVKDILDLPDTNDEDGSVAEGPEEESEGPEPAKRAGPLGQGALDAVQSLPLKSPFYDSSD NPYTRWLASTEGLQYSLHGLAASAPPQDSSSKSPEPSADESPDNDKETQGGGGDAGKKRKRRVLFSKAQT YELERRFRQQRYLSAPEREHLASLIRLTPTQVKIWFQNHRYKMKRARAEKAFQNRRMDARIEAAVPIVSA RWSDWIRKQFQVGRLTQAWEHNLVICGFEGCLGKVHLQ
	TRTRPLE - GFP Tag - V
Restriction Sites:	Sgfl-Mlul
Cloning Scheme:	Cloning sites used for ORF Shuttling:
	Kozac Consensus EcoR I BamH I Kpn I RBS Sgf I Asc I CTATAGGGCGGGCCGGGAATTCGTCGGATCCGGTACCGGGGGGAGACTCGCCGCGGCCGGGCCAGATCT Game And
	Hind III Nhe I Rsr II <u>Mlu I</u> Not I Xho I GFP Tag CAAGCTTAACTAGCTAGCGGACCG ACG CGT ACG CGG CCG CCC GAG ATG GAG AGC GAC T R T R P L E <u>M E S D</u>
ACCN:	NM 001077632

ORF Size:	744 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. <u>More info</u>
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).

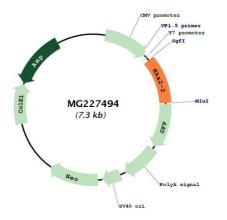
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ORIGENE Nkx2-2 (NM_001077632)

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Reconstitution Method:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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:	<u>NM 001077632.1, NP 001071100.1</u>
RefSeq Size:	1354 bp
RefSeq ORF:	747 bp
Locus ID:	18088
Cytogenetics:	2 72.63 cM
Gene Summary:	Transcriptional activator involved in the development of insulin-producting beta cells in the endocrine pancreas (PubMed:11076772). May also be involved in specifying diencephalic neuromeric boundaries, and in controlling the expression of genes that play a role in axonal guidance. Binds to elements within the NEUROD1 promoter (PubMed:19759004). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG227494

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