

Datasheet for ABIN3391122

Human VND cDNA Clone in Mammalian Expression Vector

Overview

Quantity:	10 µg
Gene:	NKX2 (VND)
Species:	Human
Insert:	cDNA
Vector:	Mammalian Expression Vector
Application:	Protein Expression (PEXP)

Product Details

Purpose:	Untagged full-length cDNA clone from Human NKX2 is ideal for over-expression of native protein for functional studies.
Brand:	TrueClones®
Insert Length:	900 bp
Vector Backbone:	pCMV6-XL5
Promoter:	Enhanced CMV Promoter, T7 Promoter
Bacterial Resistance:	Ampicillin
Expression Type:	Transient
Characteristics:	<ul style="list-style-type: none"> • These cDNA clones are isolated from full-length cDNA libraries and usually contain the coding sequence as well as the untranslated regions (UTRs) of the mRNA transcript appropriate to the library from which they were isolated. • These cDNA clones are ideal for over-expression of native proteins for functional studies. Provided as 10 µg transfection-ready plasmids. • Every lot of primer is tested to provide clean sequencing of cDNA clones.
Purification:	The DNAs were purified using PowerPrep HP Plasmid isolation kits for transfection ready plasmids.

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Product Details

Sequencing Primer: VP1.5 (forward) 5'GGACTTTCCAAAATGTCC 3', XL39 (reverse) 5'ATTAGGACAAGGCTGGTGGG 3'

Components:

- The cDNA clone is shipped in a 2-D bar-coded Matrix tube as dried plasmid DNA.
- The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

Target Details

Gene: NKX2 (VND)

Alternative Name: NKX2

Background: The protein encoded by this gene contains a homeobox domain and may be involved in the morphogenesis of the central nervous system. This gene is found on chromosome 20 near NKX2-4, and these two genes appear to be duplicated on chromosome 14 in the form of TITF1 and NKX2-8. The encoded protein is likely to be a nuclear transcription factor. [provided by RefSeq, Jul 2008].

NCBI Accession: [NM_002509](#), [NP_002500](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Storage: RT, -20 °C

Storage Comment: The lyophilized plasmid is stable for up to one year when stored at ambient temperature. Following dissolution in 100 µL dH₂O, store at -20 °C. Lyophilized primers are stable for up to one year when stored at ambient temperature. Following dissolution in 10 µL dH₂O, store at -20 °C.

Expiry Date: 12 months

Publications

Product cited in: Brozzetti, Alimohammadi, Morelli, Minarelli, Hallgren, Giordano, De Bellis, Perniola, Kämpe, Falorni: "Autoantibody response against NALP5/MATER in primary ovarian insufficiency and in autoimmune Addison's disease." in: **The Journal of clinical endocrinology and metabolism**,

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Vol. 100, Issue 5, pp. 1941-8, (2015) ([PubMed](#)).

Alimohammadi, Björklund, Hallgren, Pöntynen, Szinnai, Shikama, Keller, Ekwall, Kinkel, Husebye, Gustafsson, Rorsman, Peltonen, Betterle, Perheentupa, Akerström, Westin, Scott, Holländer, Kämpfe: "Autoimmune polyendocrine syndrome type 1 and NALP5, a parathyroid autoantigen." in: **The New England journal of medicine**, Vol. 358, Issue 10, pp. 1018-28, (2008) ([PubMed](#)).