

## Recombinant Human NARF, His-tagged

Cat. No. NARF-30280TH Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant fragment, corresponding to amino acids 1-322 of Human NARF Isoform 2 with an N terminal His tag; Predicted MWt 37 kDa.

**Species** Human

**Source** E.coli

**ProteinLength** 1-322 a.a.

#### Description

Several proteins have been found to be prenylated and methylated at their carboxyl-terminal ends. Prenylation was initially believed to be important only for membrane attachment. However, another role for prenylation appears to be its importance in protein-protein interactions. The only nuclear proteins known to be prenylated in mammalian cells are prelamin A- and B-type lamins. Prelamin A is farnesylated and carboxymethylated on the cysteine residue of a carboxyl-terminal CaaX motif. This post-translationally modified cysteine residue is removed from prelamin A when it is endoproteolytically processed into mature lamin A. The protein encoded by this gene binds to the prenylated prelamin A carboxyl-terminal tail domain. It may be a component of a prelamin A endoprotease complex. The encoded protein is located in the nucleus, where it partially colocalizes with the nuclear lamina. It shares limited sequence similarity with iron-only bacterial hydrogenases. Alternatively spliced transcript variants encoding different isoforms have been identified for this gene, including one with a novel exon that is generated by RNA editing.

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|                                 |  |
|---------------------------------|--|
| <b>Conjugation</b>              | HIS  |
| <b>Form</b>                     | Lyophilised:Reconstitute with 125 µl aqua dest.  |
| <b>Storage buffer</b>           | Preservative: None<br>Constituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5  |
| <b>Storage</b>                  | Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.  |
| <b>Sequences of amino acids</b> | MKCEHCTRKECSKKTCTDDQENV SADAPSPAQENGEKGEF HKLADAKIFLSDCLA<br>CDSCMTAEEGVQLSQQNAKDFFR VLNLNKKCDTSKHKVLVSVCPQSLPYFAAKF<br>NLSVTD ASRRLCGFLKSLGVHYVFDTTIAADFSILESQKEFVRR YRQHSEEERTLPM<br>LTSACPGWVRYAERVLGRPITAHLC TA KSPQQVMGSLVKDYFARQQNLSPEKIFHV<br>IVAPCYDKK LEALQESLPPALHGSRGADCVLTSEISQAWWCTPVITA TREAAARESL<br>EPGRQRLQRDKIAPLDSSLGGGGEIAQI MEQGDLSVRDAVD |

## GENE INFORMATION

|                        |   |
|------------------------|---|
| <b>Gene Name</b>       | <a href="#">NARF nuclear prelamin A recognition factor [ Homo sapiens ]</a>                                       |
| <b>Official Symbol</b> | <a href="#">NARF</a>  |
| <b>Synonyms</b>        | NARF; nuclear prelamin A recognition factor; DKFZp434G0420; FLJ10067; IOP2; iron only hydrogenase like protein 2; |
| <b>Gene ID</b>         | <a href="#">26502</a>   |
| <b>mRNA Refseq</b>     | <a href="#">NM_001038618</a>  |
| <b>Protein Refseq</b>  | <a href="#">NP_001033707</a>  |

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|                            |                |
|----------------------------|----------------|
| <b>MIM</b>                 | 605349         |
| <b>Uniprot ID</b>          | Q9UHQ1         |
| <b>Chromosome Location</b> | 17q25.3        |
| <b>Function</b>            | lamin binding; |

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