

Product datasheet for **SC115016**

Inversin (INVS) (NM_014425) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Inversin (INVS) (NM_014425) Human Untagged Clone
Tag:	Tag Free
Symbol:	Inversin
Synonyms:	INV; NPH2; NPHP2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_014425, the custom clone sequence may differ by one or more nucleotides

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ATGAACAAGTCAGAGAACCTGCTGTTTGGCTGGTTCATCATTAGCATCACAAGTCCATGCTGCTGCCGTTA
ATGGAGATAAGGGTCTCTACAGAGGCTCATCGTAGGAACTCTGCTCTTAAAGACAAGAAGATCAGTT
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_014425 unedited
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 C C C C C G G G A C G T C A G T C C T G G A G G A G G C G A G G G T T G C T C C G G T T G C T A A G A A G A C T A T G A
 A C A A G T C A G A G A A C C T G C T G T T T G C T G G T T C A T C A T T A G C A T C A C A A G T C C A T G C T G C T G
 C C G T T A A T G G A G A T A A G G G T G C T C T A C A G A G G C T C A T C G T A G G A A A C T G C T C T T A A A G
 A C A A A G A A G A T C A G T T T G G G A G A A C A C C A C T T A T G T A T T G C G T G T T G G C T G A C A G A T T G G
 A T T G T G C A G A T G C T C T T C T G A A G G C A G G A G C A G A T G T G A A T A A A A C T G A C C A T A G C C A G A
 G A A C A G C C C T C C A T C T T G C A G C C C A G A A G G G A A A T T A T C G T T T C A T G A A A C T C T T A C T T A
 C A C G C A G A G C A A A C T G G A T G C A A A A G G A T C T G G A A G A G A T G A C T C C T T T G C A C T T G A C C A
 C C C G G C A C A G G A G C C C T A A G T G T T T G G C A C T T C T G C T G A A G T T T A T G G C A C C A G G A G A A G
 T G G A T A C A C A G G A T A A A A A C A A G C A A A C A G C T C T G C A T T G G A G T G C C T A C A A T A A A C C
 C T G A G C A T G T G A A G C T G C T C A T C A A G C A T G A T T C T A A C A T T G N G A T T C C T G A T G T T G A A G
 G C A A G A T C C C A C T T C A C T G G G C A G C C A A C C A T A N A G A T C C A A G T G C T G T T C A C A C A G T G A
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 G A A C T C C T C T T C A C T N T G C A G T T G C T G A T G G G A A T G T G A C C G T G G T T G A T G T C T T G A C C T
 C A T A T G A A A A G C T G C A T A T A A C G T C T T A T G A T T A C T T A T T T C G A A C C C C A C T G C A C T G G G
 C A G T

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_014425 unedited
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 C T C A C T T C T G C A A G T T G G T C A G A A A T A C A A G T A G A A C G T T G A C G C C T G A G T T A G C A C C T
 T G C T G C A T G A A C A G T C T G G T C T G T A A A C C T A C C T G A C A G A A T C C T T G A T A C T G T A A T A C
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 C T T G A G A G G C T A A C G T A G G A A C T G T A A A T G T A A G G A A T C A C C A G A A T G T A T C T A T G G T C
 T T T T G G A C A A T T T C T A A A T G A A A C A G T G G G C A A T G A T T C T G A T C T A A A A T T T A A C C T G
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 G T G T G A T A A G T T T G T T G C A T T A G A T G C C A G G A A A G T A G T G A G A G G A A G G C T G C T A T G G G A
 C A G G C T T C C T A T C T C A T T T A G G T T C A T C T T T G A A A C A A G A A G C C A G T A C C A G C T A G C T G
 G C A G A A A T C C C A A C C C A G C A G C C G T A G T T T T A C T T A G A T T T T G C T G T T A A T T A T G A A T T
 C T C A T T T C C A A C T G T A C A G A C T T G A G G T G A A A G C A G A C A C T C A G G C A C T T T G C A C A G A C T
 T A G T C T A T G C A T G T C C T T T N C A G T G C A G G C T G T G C G A T T G A C A A A A C C A T G C T G T G T T A
 G A G C A T T A A G G A A A C A T T T T G A C A T T T T C T T T T A A T T A A C A C T T T T T A G T T G A A T T A T C
 C T C T A A G T A C G G G T T T T A A A G T T T T C C C A G G T G C T A A A G A T C T C A T T C C G A A A T T T T A A C
 T

Restriction Sites:

NotI-NotI

ACCN:

NM_014425

Insert Size:

4230 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_014425.2](#), [NP_055240.2](#)

RefSeq Size: 3880 bp

RefSeq ORF: 3198 bp

Locus ID: 27130

UniProt ID: [Q9Y283](#)

Cytogenetics: 9q31.1

Domains: IQ, ANK

Gene Summary: This gene encodes a protein containing multiple ankyrin domains and two IQ calmodulin-binding domains. The encoded protein may function in renal tubular development and function, and in left-right axis determination. This protein interacts with nephrocystin and infers a connection between primary cilia function and left-right axis determination. A similar protein in mice interacts with calmodulin. Mutations in this gene have been associated with nephronophthisis type 2. Multiple transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq, May 2012]
Transcript Variant: This variant (1) encodes the longest isoform (a). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.