

## Product datasheet for **SC117652**

### **KALRN (NM\_003947) Human Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	KALRN (NM_003947) Human Untagged Clone
Tag:	Tag Free
Symbol:	KALRN
Synonyms:	ARHGEF24; CHD5; CHDS5; DUET; DUO; HAPIP; TRAD
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_003947, the custom clone sequence may differ by one or more nucleotides

```
ATGACGGACCGCTTCTGGGACCACTGGTATCTCTGGTATCTCCGCTTGCTCCGGTCTGGATCGAGGGT
CTTTTCGGAATGATGGTTTGAAGCTTCTGATGTCCTTCTATCCTAAAGGAAAAGGTGGCCTTCGTGTC
TGGGGTCTGTGATAAGCGAGGCGGACCCATCCTGACCTCCCTGCTCGCAGCAATCATGACAGAATAAGA
CAGGAAGACCTGCGGAACTCGTGACGTATTTGGCCAGCGTGCCAAGTGAGGACGTGTGCAAACGTGGCT
TCACTGTCATCATCGACATGCGGGGCTCCAAGTGGACCTCATCAAGCCCCTCCTAAAACGCTGCAGGA
AGCCTTTCCAGCTGAGATCCATGTGGCCCTCATCATTAAACCCGACAACCTCTGGCAGAAACAGAAGACC
AACTTTGGCAGCTCCAAATTCATCTTTGAGACGAGCATGGTATCTGTGGAGGGCCTCACAAGCTGGTGG
ACCCCTCCAGCTGACGGAGGAGTTTGATGGCTCCCTGGACTACAACCATGAGGAGTGGATCGAACTGCG
GCTCTCCCTGGAGGAGTTCTTCAACAGCGCCGTGCACCTGCTCTCGCGCCTCGAGGACCTCCAGGAGATG
CTAGCCCAGGAGGAGTTTCTGTGGATGTGGAGGGCTCTCGGCGGCTCATTGACGAACACACACAGCTCA
AGAAAAAGGTGCTGAAGGCCCTGTGGAGGAGCTGGACCGGGAGGGGCGAGCGGCTGCTGCAGTGCATCCG
CTGCAGCGACGGCTTCTCAGGACGCAACTGCATCCCGGGCAGTGTGACTTCCAGAGCCTGGTGCCCAAG
ATCACCAGTCTCCTGGACAAGCTGCACTCCACCCGGCAGCACCTGCACCAGATGTGGCATGTGCGCAAGC
TCAAGCTGGACCAAGTATTCCTCCAGAGCCACAGGAGATCGGAGTCAAGTACCAGTACGCCCTTGACCTC
CAGACGCAGACAATCACTTTGCCATGAACTCCATGAATGCCTATGTCAACATCAACCGCATCATGTCCG
TGCTTCCCGCTCTCTGAGGCCGTGCTTATGCCTCACAACAAATCAAGCAGATCTCCACCCAGCTGGA
CCAGGAGTGAAGAGCTTCGCTGCTGCCCTGGATGAACGCAGCACCATCCTCGCCATGTCTGCTGTGTTT
CACCAGAAGGCTGAGCAGTTCTGTGCGGAGTGGATGCCTGGTGAAGATGTGCAAGTGAAGGTGGTCTGC
CATCCGAGATGCAAGACCTAGAGCTGGCAATCCACCACCAGACCTTGTATGAGCAGGTGACCCAAGC
CTACACAGAGGTGAGCCAGGATGGCAAAGCACTACTTGTGTGCTGCAGCGGCCCTGAGCCCTGGGAAC
TCCGAATCCCTCACGGCCACAGCCAACACTCCAAGGCAGTGCACCAGGTGCTGGACGTGGTGCATGAGG
TGTTACATCACCAGCGACGGCTGGAGAGCATCTGGCAGCACCGCAAGGTGCGGCTCCACCAGCGGCTGCA
```



[View online »](#)

GCTCTGCGTCTTCCAGCAGGATGTACAGCAGGTGTTGGACTGGATTGAAAACCATGGTGAGGCCTTTCTC  
 AGCAAACACACTGGAGTTGGGAAGTCCCTACATCGAGCCCGGGCCCTGCAGAAGAGGCATGATGACTTTG  
 AAGAGGTGGCTCAGAATACGTACACCAATGCGGACAAGCTCCTAGAAGCAGCAGAGCAGTTGGCTCAGAC  
 GGGGGAATGTGACCCCGAGGAGATCTACAAGGCAGCTCGACACCTGGAGGTGCGCATCCAAGACTTCGTG  
 CGCAGGGTGGAGCAGCGGAAGCTTCTCCTGGACATGTCTGTTTCCTTCCACACACACCAAAGAGTTGT  
 GGACATGGATGGAAGACCTTCAGAAGGAGATGTTGGAGGATGTCTGTGCAGATTTCTGTGGATGCAGTCCA  
 GGAATGATCAAGCAGTTCAGCAGCAGCAGCAGCCCACTAGATGCCACACTCAATGTCAATCAAGGAA  
 GGCGAAGACCTTATCCAGCAGCTCAGGTACGCGCTCCCTCCCTCGGGGAGCCAGCGAGGCCAGGGACT  
 CGGCTGTGTCCAACAACAAAACACCCACAGCAGCTCCATCAGCCACATCGAGTCGGTCTCGCAGCAGCT  
 TGATGATGCCAGGTGCAGATGGAGGAGCTGTTCCACGAGCGGAAGATCAAGCTGGACATCTTCTGCAA  
 CTGCGCATCTTTGAGCAGTACACCATCGAGGTGACAGCAGAGCTAGACGCTGGAATGAAGACTTGTCTC  
 GGCAGATGAATGACTTCAACACAGAGGACCTAACCTGGCAGAACAGCGGCTGCAGCGCCACACAGAACG  
 GAAGCTAGCCATGAACAACATGACCTTTGAGGTTATCCAGCAGGGACAGGATCTGCACCAGTACATCAG  
 GAGGTCCAGGCATCAGGAATTGAGTTGATCTGTGAAAAAGACATTGATCTGGCAGCCAGGTGCAAGAGT  
 TATTGGAATTTCCATGAGAAGCAGCATGAATTGGAGCTCAATGCAGAGCAGACTCATAAGCGGCTAGA  
 GCAGTGCCTCAATTACGTCACCTCCAGGCTGAAGTCAAACAGGTTCTGGGATGGATCCGCAATGGAGAG  
 TCAATGCTCAACGCCAGCCTGGTCAATGCCAGCTCTTGTGCGAAGCAGAGCAGCTGCAGCGGGAGCAG  
 AGCAGTCCAACCTGGCCATCGAGTCCCTCTTTCATGCCACTTCTTGCAGAAGACGCACCAGAGTGCCTT  
 GCAGGTACAGCAGAAAGCCGAGGTGCTGCTCCAGGCCGGCCACTACGATGCCGATGCCATCCGGGAATGT  
 GCTGAGAAGGTGGCCCTCCACTGGCAGCAGCTCATGCTGAAGATGGAAGACCGGCTAAAATTGGTCAATG  
 CCTCTGTGGCCTTTTAAAAACTTCTGAACAGGTGTGTAGTGTCTGGAGAGCTTAGAGCAAGAATACCG  
 GAGAGATGAGGACTGGTGTGGTGGACGAGATAAGCTGGGGCCAGCAGCAGAGATCGACCATGTATTCCC  
 CTATCAGCAAAACATTTGGAACAAAAGGAGGCCCTTTCTTAAGGCCTGCACCCTGGCTCGGGCAATGTG  
 AGGTGTTTCTCAAGTACATCCACAGGAACAACGTCAGCATGCCAGTGTGCCAGCCACACTCGGGGACC  
 CGAGCAACAAGTAAAAGCCATCCTGAGTGAAGTCTTGCAGAGGGAGAATCGCGTGTGATTTCTGGACC  
 TTGAAGAAGCGCGGTTAGACCAATGCCAGCAATATGTGGTGTTCGAGCGCAGCGCTAAGCAGGCGCTTG  
 ACTGGATCCAAGAAACAGGTGAATTTTACCTCTCAACACATACCTCCACTGGAGAGACCACAGAGGAGAC  
 TCAGGAACTGCTGAAAGAATATGGGGAATTCAGGGTGCCTGCCAAGCAAACAAAGGAGAAGGTGAAGCTT  
 CTGATTCAGCTGGCCGATAGCTTTGTGAAAAAGGCCACATTCATGCCACGGAGATAAGGAAATGGGTGA  
 CCACGGTGGACAAGCACTACAGAGATTTCTCCCTGAGGATGGGAAAGTACCGATACTCACTGGAGAAAGC  
 CCTAGGAGTCAACACAGAGGATAATAAGGACCTGGAGCTGGATATTATCCAGCAAGCCTTTCGGATCGG  
 GAGGTCAAAGCTGCGGGACGCCAACACGAAGTCAATGAAGAGAAGCGGAAGTCAAGCCGGAAGAAAGAA  
 TTATTATGGCTGAACTACTCCAGACAGAGAAGGCTTATGTAAGGGATTTGCATGAGTGTAGAGACCTA  
 CCTGTGGGAAATGACCAGTGGTGTGGAGGAGATCCCCCTGGGATCCTCAATAAAGAGCATATCATCTTT  
 GGCAACATCCAAGAGATCTACGATTTCCATAAACAACATCTTCTCAAAGAGCTGGAGAAGTACGAGCAAC  
 TGCTGAGGATGTGGGACACTGCTTTGTTACCTGGGCAGACAAATTTAGATGTATGTCACTACTGTAA  
 AAACAAGCCTGATTCCAACCAGCTTATCCTGGAGCATGCGGGCACCTTCTTTGATGAGATACAACAGCGG  
 CATGGTCTGGCCAACTCCATCTTCTACCTAATTAAGCCTGTCCAAAGGATCACCAAAATCAACTGC  
 TCCTGAAGGAACTTTTAACTTGTGTGAAGAAGGAAAGGGGAGCTCAAGGATGGCCTGGAGGTGATGCT  
 CAGTGTCCCAAAGAAAGCCAATGATGCCATGCATGTGAGCATGCTGGAAGGGTTGACAGAGAACCTGGAT  
 GTGCAAGGGGAGTTGATTCTCCAGGATGCCTTTCAAGTGTGGGACCCGAAGTTCGCTGATCCGGAAGGGG  
 GGGAGCGGCACTTGTCTCTTTGAGATCTCCTTGGTTTTAGCAAGGAGATCAAAGATTCTTCAGGACA  
 CACGAAATATGTTTACAAGAACAAGCTACTGACCTCAGAGCTGGGTGTGACCGAGCAGTGGAGGGCGAT  
 CCCTGCAAATTCGCTTGTGGTCTGGGCGCACCCATCCTCAGACAATAAAACAGTGTGAAAGCCTCCA  
 ACATTGAAACCAAGCAGGAGTGGATCAAGAACATTCGAGAAGTATTCAAGAAAGGATCATTACCTGAA  
 AGGAGCTTTAAAGGAGCCACTTCAGCTCCCCAAAACACCAGCCAAACAGAGGAACAATAGTAAGAGGGAT  
 GGAGTGGAGGATATTGACAGCCAGGGGATGGGAGCAGCCAACAGACACCATCTCCATTGCTTCTAGGA  
 CCTCTCAGAACACAGTGGACAGTGACAAGGATGGCAACCTTGTCTCGGTGGCACCTGGACCTGGAGA  
 TCCTTTCTCCACTTACGTTTAG

<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_003947 unedited TTTGCCCCCGCCGTTGCCGCAAAGGGCGGTAGGCGTGTACGGTGGNGAGTCTATATAAGC AGAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGGCCGCG AATTCGGCAGCAGGGGCGAGCCAGCGTCAAGTGATTCCGGCCTCCTCGAGTCAGCGGTGG TGGGATGAGGCTCTGCCGAGGGGACTGGCTGTGAAGGATGAGTTCAGGGTGGGATGACGG ACCGCTTCTGGGACCAGTGGTATCTCTGGTATCTCCGCTTGCTCCGGCTGCTGGATCGAG GGTCTTTTCGGAATGATGGTTTAAAGCTTCTGATGTCCCTTCTATCCTAAAGGAAAAGG TGGCCTTCGTGTCTGGGGTTCGTGATAAGCGAGGCGGACCCATCCTGACCTTCCCTGCTC GCAGCAATCATGACAGAATAAGACAGGAAGACCTGCGGAAACTCGTGACGTATTTGGCCA GCGTGCCAAGTGAGGACGTGTGCAAACGTGGCTTCACTGTATCATCGACATGCGGGGCT CCAAGTGGGACCTCATCAAGCCCTCCTCAAACGCTGCAAGAAGCCTTTCCAGCTGAGA TCCATGTGGCCCTCATCATTAACCCGACAACCTCTGGCAGATACAGAAGACCAACTTTG GCAGCTCAAATTCATCTTTGAGACGAGCATGGTATCTGTGGAGGGCCTCACAAAGCTGG TGGACCCCTCCCAGCTGACAGAGGAGCTTGATGGCTCCCTGGACTACACCATNGAGAGTG GATCGAACTGCNGCTCTNCTGGAGAGTTCTTACAGCGCCGTGCACCTGCTCTCGGCC TNGAGGACTNCAGGAGATGCTAGCCCAGAAAGAGTTTCTGTGGATGTGGAGGGCTCTTC GCCGCTCATTGACGAACCC
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_003947
<b>Insert Size:</b>	8000 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_003947.3</a></u> , <u><a href="#">NP_003938.1</a></u>
<b>RefSeq Size:</b>	6524 bp
<b>RefSeq ORF:</b>	4992 bp
<b>Locus ID:</b>	8997
<b>UniProt ID:</b>	<u><a href="#">O60229</a></u>
<b>Cytogenetics:</b>	3q21.1-q21.2
<b>Domains:</b>	RhoGEF, SEC14, PH, spectrin
<b>Protein Families:</b>	Druggable Genome, Protein Kinase

**Gene Summary:**

Huntington's disease (HD), a neurodegenerative disorder characterized by loss of striatal neurons, is caused by an expansion of a polyglutamine tract in the HD protein huntingtin. This gene encodes a protein that interacts with the huntingtin-associated protein 1, which is a huntingtin binding protein that may function in vesicle trafficking. [provided by RefSeq, Apr 2016]

Transcript Variant: This variant (2) differs in the 3' UTR and lacks many exons in the 3' coding region, compared to variant 1. The encoded protein (isoform 2), also known as Trad and Duet, is shorter and has a distinct C-terminus, compared to isoform 1.