

## Product datasheet for **SC114686**

### **KHDC4 (NM\_014949) Human Untagged Clone**

#### **Product data:**

|                           |                                        |
|---------------------------|----------------------------------------|
| Product Type:             | Expression Plasmids                    |
| Product Name:             | KHDC4 (NM_014949) Human Untagged Clone |
| Tag:                      | Tag Free                               |
| Symbol:                   | KHDC4                                  |
| Synonyms:                 | BLOM7; KIAA0907; SNORA80EHG            |
| Mammalian Cell Selection: | None                                   |
| Vector:                   | <u>pCMV6-XL5</u>                       |
| E. coli Selection:        | Ampicillin (100 ug/mL)                 |



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**Fully Sequenced ORF:** >OriGene ORF within SC114686 sequence for NM\_014949 edited (data generated by NextGen Sequencing)

```
ATGTCCGCGGGGAGCGCAGACATCCTGGAGCTGGCGGGCGCCGAGCAAAATGGGACCAA
CCAGCTCCAGCCCCACTTCTCTTCTCCCGCCAGCGGGCCAGGTGGGGAGGTCAACGAGC
AGTGGGGGAAGTCTGGGGGCACCACAGCTGCTCCTTCAGGAGCCTTGGATGCTGCTGCT
GCTGTGGCTGCCAAGATTAATGCCATGCTCATGGCAAAAGGGAAGCTGAAACCAACTCAG
AATGCTTCTGAGAAGCTTCAGGCTCCTGGCAAAGGCCTAACTAGCAATAAAAGCAAGGAT
GACCTGGTGGTAGCTGAAGTAGAAATTAATGATGTGCCTCTCACATGTAGGAACCTTGCTG
ACTCGAGGACAGACTCAAGACGAGATCAGCCGACTTAGTGGGGCTGCAGTATCAACTCGA
GGGAGGTTTCATGACAACCTGAGGAAAAAGCCAAAGTGGGACCAGGGGATCGTCCATTATAT
CTTCATGTTTCAGGGCCAGACACGGGAATTAGTGGACAGAGCTGTAAACCGGATCAAAGAA
ATTATACCAATGGAGTGGTAAAAGCTGCCACAGGAACAAGTCCAACCTTTAATGGTGCA
ACAGTAAGTGTCTATCACCAGCCAGCACCCATCGCTCAGTTGTCTCCAGCTGTTAGCCAG
AAGCCTCCCTTCAGTCAGGGATGCATTATGTTCAAGATAAATTATTTGGGTCTAGAA
CATGCTGTACCCACTTTAATGTCAAGGAGAAGGTGGAAGGTCCAGGCTGCTCCTATTTG
CAGCACATTTCAGATTGAAACAGGTGCCAAAGTCTTCTGCGGGGCAAAGGTTTCAGGCTGC
ATTGAGCCAGCATCTGGCCGAGAAGCTTTGAACCTATGTATATTACATCAGTCACCCC
AAACCAGAAGGCCTGGCTGCTGCCAAGAAGCTTTGTGAGAATCTTTGCAACAGTTCAT
GCTGAATACTCTAGATTTGTGAATCAGATTAATACTGCTGTACCTTTACCAGGCTATACA
CAACCCTCTGCTATAAGTAGTGTCCCTCCTCAACCACCATATTATCCATCCAATGGCTAT
CAGTCTGGTTACCTGTTGTTCCCTCCTCAGCAGCCAGTTCACCTCCCTACGGAGTA
CCAAGCATAGTGCCACCAGCTGTTTCATTAGCACCTGGAGTCTTGCCGGCATTACCTACT
GGAGTCCCACCTGTGCCAACACAATACCCGATAACACAAGTGCAGCCTCCAGCTAGCACT
GGACAGAGTCCGATGGGTGGTCTTTTATTCTGCTGCTCCTGTCAAAACTGCCTTGGCT
GCTGGCCCCCAGCCCCAGCCCCAGCCCCAGCCCCACTCCAAGTCAGCCCCAGGCACAG
AAGAGACGATTTCAGAGGAGCTACCAGATGAACGGGAATCTGGACTGCTTGATACCAG
CATGGACCCATTTCATAGCTAATTTAGGTACAGGCTTCTCCAGTCAGAATGAGATTGAA
GGTGCAGGATCGAAGCCAGCAAGTTCCTCAGGCAAGAGAGAGAGAGGGACAGGCAGTTG
ATGCTCCACCAGCCTTTCCAGTACTGGAATAAAACAGAGTCCGATGAAAGGAATGGG
TCTGGGACCTTAACAGGGAGCCATGATTATCCAGCCAAGAAGATGAAACTACAGAGAAG
GGATTTGGCTTGGTGGCTTATGCTGCAGATTTCATCTGATGAAGAGGAGGAACATGGAGGT
CATAAAAATGCAAGTAGTTTTCCACAGGCTGGAGTTTGGGATACCAATATCCTTCATCA
CAACCACGAGCTAAACAACAGATGCCATTCTGGATGGCTCCCTAG
```

Clone variation with respect to NM\_014949.2

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_014949 unedited

```
NGGGTCAAAATTTGTAATACGACTCACTATAGGGCGGGCGCAATTCGCACGAGGGTGGT
TGAGTGGAAGCGGTGCGCATGTCCGCGGGGAGCGCAGACATCCTGGAGCTGGCGGGCGC
CGCAGCAAAATGGGACCAACCAGCTCCAGCCCCACTTCTCTTCTCCCGCCAGCGGCCCCA
GGTGGGGAGGTCAACAGCAGTGGGGGAAGTCTGGGGGCACCACAGCTGCTCCTTCAGGA
GCCTTGGATGCTGCTGCTGTGGCTGCCAAGATTAATGCCATGCTCATGGCAAAAGGG
AAGCTGAAACCAACTCAGAATGCTTCTGAGAAGCTTCAGGCTCCTGGCAAAGGCCTAACT
AGCAATAAAAGCAAGGATGACCTAGTGGTAGCTGAAGTAGAAATTAATGATGTGCCTCTC
ACATGTAGGAACCTTGCTGACTCGAGGACAGACTCAAGACGAGATCAGCCGACTTAGTGGG
GCTGCAGTATCAACTCGAGGGAGGTTTCATGACAACTGAGGAAAAAGCCAAAGTGGGACCA
GGGGATCGTCCATTATATCTTCATGTTTCAGGGCCAGACACGGGAATTAAGTGGACAGAGCT
GTAAACCGGATCAAAGAAATTATCACCATGGAGTGGTAAAAGCTGCCACAGGAACAAGT
CCAACCTTTTAATGGTGCAACAGTAAGTGTCTATCACCAGCCAGCACCCATCGCTCAGTTG
TCTCCAGCTGTTAGCCAGAAGCCTCCCTTCCAGTCAGGGATGCATTATGTTCAAGATAAA
TTATTTTGGGTCTAGAACATGCTGTACCCACTTTTAAATGTCAAGGAGAAGGTGGAANGG
TNCAGGCTGCTCCTATTTGCAGCACATTCAGATTGAANNACAGTGCCAAAGTCTTCC
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|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>3' Read Nucleotide Sequence:</b> | <p>&gt;OriGene 3' read for NM_014949 unedited</p> <pre>CCGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTGAATATTTATAGATTTAT TTATAATGAAATTATGGTCTAAATATTTACAACATATAGGAAACCAGAGGATAAGTTTAT ACAAAGCCAGCCTGCAAAGTATTCAAATGTGCAAAAATGACAGTTCAATATCTCAAACCTA TTCCTGGTTCAGCAGACTAGCTCCTTCACTTTACACATCAATATTTGATACAAAAAGTT ATTTTGGCAAAATCTGTAATGCCAAGAAAAAGGACAATTTGCAATTTCAAGTCATTAAGTC CAAAATCCTATAGCCAGCAGTCAGATCTCTGTTTGTAGCTGCAACCAGTTCTGGGAGAG AGAGACCACTGTATTTTCATTTCTGTGATGAGTTCTGACCAGTTTTAGTCAAGAAGTTTTCT TCTGACCAGCTGAAGACAGGATCTTAGAAGGGCAATAAAAAACAGTAATGGCTATGAGAC CAATGTGCCTGAAGGTGCCAGCTTTGGATCACCCCAATTAACCAACATGAAAAAATA ATTTTCATTTCTATCCAGGATCCAGCTATATCCAACAGTTTTAAATGAGACAGCATTTT CCAAAACAGAAATAATCCAAAACAAACCAGGGATGCAGATCTCGCACAATAAATACCTGA AAGGACGGTCTTTAAATATTTCCCCCTAATAAATAGAAAGCTCTGGTTGTAACCAAGTTA TATATCAAAATTGCCCCACCAGAGGTAAAAACCAAAAAAACTTTTTTTATGTAACCTG GGGCTATTACCTGTAAAGGGCGACCAAGTCCAAGGGCTTGGGAACCACTGTTAGAAG CTTTGTTGAACAACCACTTTACCCCACTGTAAACACCTCTGCGAAAAATCGGAGTCTATC AAATTTTACCAATCTTGCCTGGAACAAAAGTTTCTCGGGCTGTTAGGACCCCTCAA</pre> |
| <b>Restriction Sites:</b>           | NotI-NotI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>ACCN:</b>                        | NM_014949                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Insert Size:</b>                 | 3000 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>                      | <a href="#">NM_014949.2</a> , <a href="#">NP_055764.2</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>RefSeq Size:</b>                 | 2960 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>RefSeq ORF:</b>                  | 1845 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Locus ID:</b>                    | 22889                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>UniProt ID:</b>                  | <a href="#">Q7Z7F0</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Cytogenetics:</b>                | 1q22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

**Gene Summary:**

RNA-binding protein involved in pre-mRNA splicing (PubMed:19641227). Interacts with the PRP19C/Prp19 complex/NTC/Nineteen complex which is part of the spliceosome (PubMed:19641227). Involved in regulating splice site selection (PubMed:19641227). Binds preferentially RNA with A/C rich sequences and poly-C stretches (PubMed:23144703). [UniProtKB/Swiss-Prot Function]