

## Product datasheet for **SC114469**

### **C1orf41 (HSPB11) (NM\_016126) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	C1orf41 (HSPB11) (NM_016126) Human Untagged Clone
Tag:	Tag Free
Symbol:	HSPB11
Synonyms:	C1orf41; FAP232; HSPCO34; IFT25; PP25
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_016126, the custom clone sequence may differ by one or more nucleotides

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ATGAGAAAATTGATCTCTGTCTGAGCTCTGAAGGGTCCGAAGTGATTTAGCTACATCAAGTGATGAAA  
AACACCCACCTGAAAATATCATTGATGGGAATCCAGAAACGTTTTGGACCACCACAGGAATGTTCCCA  
GGAATTCATTATTTGTTCCACAAACATGTAAGGATTGAAAGGCTTGTAAATCCAAAGTTACTTTGTACAG  
ACCTTGAAGATTGAAAAAGCACGTCTAAAGAGCCAGTTGATTTTGAGCAATGGATTGAAAAAGATTTGG  
TACACACAGAGGGGCAGCTTCAAATGAAGAAATTGTGGCACATGATGGCTCCGCTACTTACTTGAGATT  
CATTATTGATCAGCCTTTGATCATTTCATCTGTGCATAGCGTTTCTGCAGAAGGAACAGTAGTCTCA  
AATCTTTCCTCATAA
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_016126 unedited AAGTTCAACATTTTGTAAATACGACTTCCTATAGGGCGGCCGGAATTCGGCACGAGGGCA GGCGACCCGAGGGCCGAGGGTTTGGAACTCGCAGAGGTTAAACACTTTAAGATGAGAAAA ATTGATCTCTGTCTGAGCTCTGAAGGGTCCGAAGTGATTTTAGCTACATCAAGTGATGAA AAACACCCACCTGAAAAATCATTGATGGGAATCCAGAAACGTTTTGGACCACCACAGGA ATGTTTTCCCAGGAATTCATTATTTGTTCCACAAACATGTAAGGATTGAAAGGCTTGTA ATCCAAAGTTACTTTGTACAGACCTTGAAGATTGAAAAAAGCACGCTAAAGAGCCAGTT GATTTTGAGCAATGGATTGAAAAAGATTTGGTACACACAGAGGGCAGCTTCAAAATGAA GAAATTGTGGTAAGTGAATATACTTTATAGAATTAATAAATTAACCTGCACAATGTATTTA GACTTTAACCTATCTCCATAGTCATAGTTAATAAATTTCTCATGATATTATAGGTTTGT ACCTAAATCAACCGGTAGAGAAAGTTATTCTCAATAATAATATAAGCTAAATGTACATTC ATAAATTAAGTTCTTACCTTTTCATAGAGAGTGACGGCAGATAAAAACAATTCATTTATTT TTTGTATTTATTTTCTCATTCTTTACTTTGAAGTATTTATTTTGGTTTGCTTTCTTTCA TTTGATTCTGTAGCCTTTTAAATANGAATGAAAAAGGGTCGCGATGCCAAAAATGANT GTTATTTTAAGCTTGAAAGGACAATTGAGATTCNTATTAGGGGGAACNGGGCCTAGGGT CAGCCACCAATAAGCCCCAAGAAGGATGAGGTGGGAAAGACCAACCGTTTTTTTCGACAA CTTTCCATTGGGCTTTTGTGGCAGGAGAAATAAA
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_016126
<b>Insert Size:</b>	2650 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_016126.1</a> , <a href="#">NP_057210.1</a>
<b>RefSeq Size:</b>	601 bp
<b>RefSeq ORF:</b>	345 bp
<b>Locus ID:</b>	51668
<b>UniProt ID:</b>	<a href="#">Q9Y547</a>
<b>Cytogenetics:</b>	1p32.3

**Gene Summary:**

Component of the IFT complex B required for sonic hedgehog/SHH signaling. May mediate transport of SHH components: required for the export of SMO and PTCH1 receptors out of the cilium and the accumulation of GLI2 at the ciliary tip in response to activation of the SHH pathway, suggesting it is involved in the dynamic transport of SHH signaling molecules within the cilium. Not required for ciliary assembly. Its role in intraflagellar transport is mainly seen in tissues rich in ciliated cells such as kidney and testis. Essential for male fertility, spermiogenesis and sperm flagella formation. Plays a role in the early development of the kidney. May be involved in the regulation of ureteric bud initiation (By similarity).  
[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) represents the more abundant protein-coding transcript. Variants 1 and 2 both encode the same protein.