

Product datasheet for **RC202693**

C1orf41 (HSPB11) (NM_016126) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: C1orf41 (HSPB11) (NM_016126) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: C1orf41
Synonyms: C1orf41; FAP232; HSPCO34; IFT25; PP25
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC202693 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAGAAAAATTGATCTCTGTCTGAGCTCTGAAGGGTCCGAAGTGATTTTAGCTACATCAAGTGATGAAA
AACACCCACCTGAAAATATCATTGATGGGAATCCAGAAACGTTTTGGACCACCACAGGAATGTTTCCCA
GGAATTCATTATTTGTTCCACAAACATGTAAGGATTGAAAGGCTTGAATCCAAAGTTACTTTGTACAG
ACCTTGAAGATTGAAAAAGCACGTCTAAAGAGCCAGTTGATTTGAGCAATGGATTGAAAAAGATTGG
TACACACAGAGGGCAGCTTCAAATGAAGAAATTGTGGCACATGATGGCTCCGCTACTTACTTGAGATT
CATTATTGATCAGCCTTTGATCATTTCATCTGTGCATAGCGTTTCTGCAGAAGGAACAGTAGTCTCA
AATCTTTCCTCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC202693 protein sequence
Red=Cloning site Green=Tags(s)
MRKIDLCLSSEGSEVILATSSDEKHPPENIIDGNPETFWTTTGMFPQEFIIICFHKHVRIERLVIQSYFVQ
TLKIEKSTSKEPVDFEQWIEKDLVHTEGQLQNEEIVAHDSATYLRFIIVSAFDHFASVHSVSAEGTVVS
NLSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

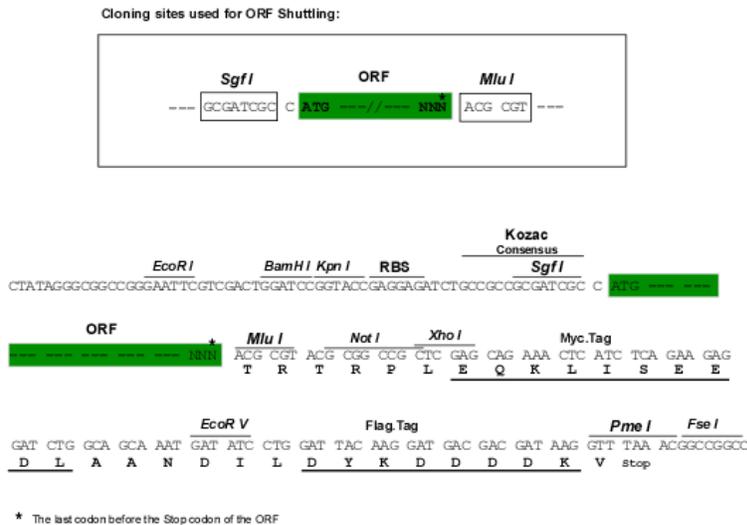
Chromatograms: https://cdn.origene.com/chromatograms/mk6414_h10.zip



[View online »](#)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_016126

ORF Size: 432 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_016126.4](#)

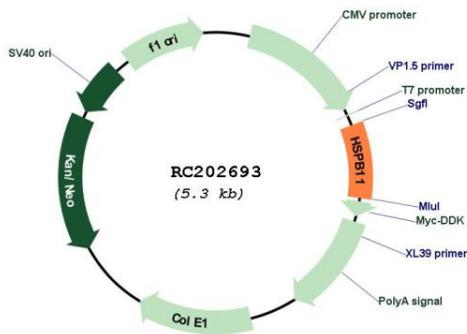
RefSeq Size: 601 bp

RefSeq ORF: 435 bp

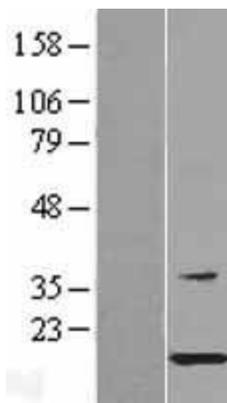
Locus ID: 51668
UniProt ID: [Q9Y547](#)
Cytogenetics: 1p32.3
MW: 16.3 kDa

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]

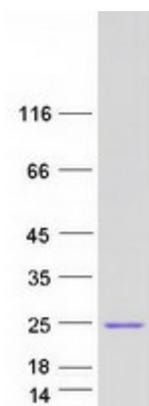
Product images:



Circular map for RC202693



Western blot validation of overexpression lysate (Cat# [LY414172]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202693 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified HSPB11 protein (Cat# [TP302693]). The protein was produced from HEK293T cells transfected with HSPB11 cDNA clone (Cat# RC202693) using MegaTran 2.0 (Cat# [TT210002]).