

Product datasheet for MR231667

Anks1 (NM_001286040) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Anks1 (NM_001286040) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Anks1
Synonyms: Anks1a; mKIAA0229
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR231667 representing NM_001286040
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGGGAAGGAGCAGGAGCTGCTGGAGGCGGCCGCACCGGGCACCTCCCGGCCGTGGAGAAGCTGCTGT
 CCGGGAAGCGGCTCTCCTCCGGTTCGGCGGCGGGCGGGCGGCTCAGGCAGCGCGCGGCTCCGGGG
 CGGCGGCTCGGTTCTTCTAGCCACCCGCTCTCCAGTCTGCTGAGCATGTGGAGAGGGCCGAACGTGAAC
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 TCCCTTCTGAGGAACGACGCGCTGACCAACGTTGCTGACTCGAAAGGCTGCTACCCGCTGCACTTGGCAGC
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 CAGAAATGCTCTTGAGATCAGAGAAGTCAAAAAGTACGGCCCTTTGACCCCTTATCAATGCCAAGAACA
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AGCAGTTCCTCAGGTCTCCTCCACGGCTCCTCCCCAGTGTGTGAGGTGGGGCAGGACCCTTCCAGCTGCT
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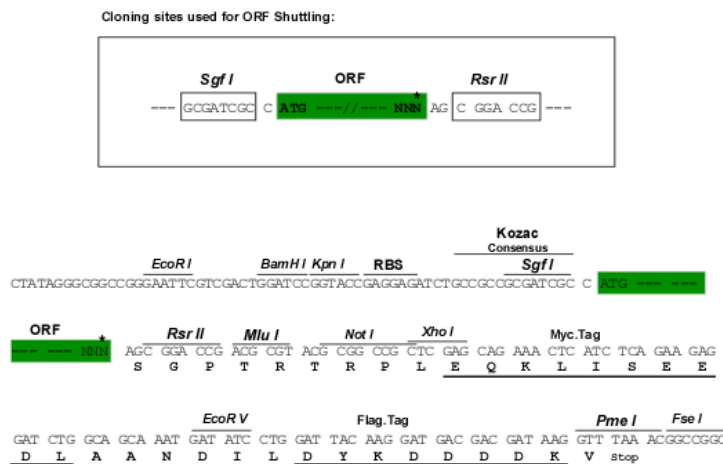
Protein Sequence: >MR231667 representing NM_001286040
 Red=Cloning site Green=Tags(s)

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 RLEVVKLLLGAHPNLLSCSTRKHTPLHLAARNGHKAVVQVLLDAGMDSNYQTEMGSALEAALFGKTDVV
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 PMSQGSMEKTVTELILHFDTHADEEGPYEALYNAVSCHSLDSTASGRSSDRDSMNKEAEATGTRAAGVPR
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 AARSLPKVKALGYDGVSPTSVPSWLDLGLQDYVHSFLSSGYSSIDTVKNLWELELVNVLKVHLLGHRKR
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 SRADRFVQEEPSETKLTLPPLAAPYAPVQSWQHPEKLI FESCGYEANYLGSMLIKDLRGTESTQDA
 CAKMRKSTEHMKIPTIILSITYKGVKIDASNKNVIAEHEIRNISCAAQDPEDLCTFAYITKDLQTS
 YCHFVSTVDVNLTYEIIITLGGQAFVAYQLALQAQKSRRTMAASAASMIETKSSKPVKPRVGMRSKSA
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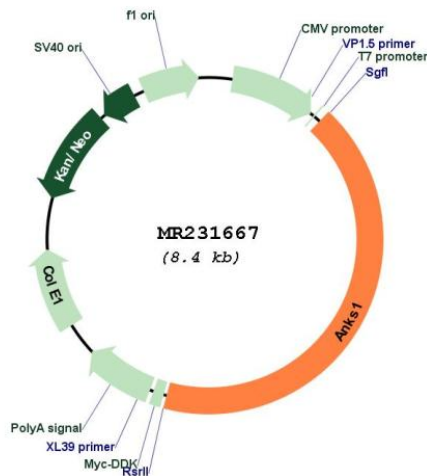
SGP TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-RsrII

Cloning Scheme:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_001286040

ORF Size: 3567 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.

RefSeq: [NM_001286040.1](#), [NP_001272969.1](#)

RefSeq Size: 7092 bp

RefSeq ORF: 3570 bp

Locus ID: 224650

Cytogenetics: 17 A3.3

MW: 130 kDa

Gene Summary: Regulator of different signaling pathways. Regulates EPHA8 receptor tyrosine kinase signaling to control cell migration and neurite retraction.[UniProtKB/Swiss-Prot Function]