

Product datasheet for MR218656

Sphkap (NM_172430) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Sphkap (NM_172430) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Sphkap
Synonyms: 4930544G21Rik; A930009L15Rik; AI852220; mKIAA1678; SKIP
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR218656 representing NM_172430
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGATGTCAACTCCCGGCTTTCTGTGCAAAGCAACGTGGAATCACCACTGATGCATGAAGTTTCAGAGC
 CACAGCAGATCACAGCAGTGCAGCAGGCAACCTGGCTGGCTCCATCACGGCCTGTAAAAAGTTCTTCG
 AAGCAATAGCTTGTGGAGTCCACAGACTACTGGCTGCAGAACCCAGAGGACGCCTTGCCAGATTGGGTTT
 GTGGAAGATGAGTCAGAAAAGTGTCTTCTGTCTGCTTTGTGAACCTGGATGTCAACAAAGATGCCTGCA
 TCACAGAGAACCTGCAGCAGAACTGGTCAATGTTTCACCGGACCTTCCAAACCTCATCAGTCCATGAA
 TGTCCAACAGCCGAAAGAAAATGAAATTGCTCCTAAGTGGGTTAGCCTCTGGAACCTCCAGGCAGAT
 TTTGATGTTTACAGTGCCCTTGGCTACAGATATCTGCTTGGTCCAGTGTGAAGGGAAACAGACCAA
 ACAGTACCAACTGCATCATCTTTGAGATCAACAAGTTCTTAATTGGTCTGGAAGTAGTGCAGGAGCGTCA
 GCTCCACCTGGAGACGAACGTGTTGAAGCTGGAGGATGATACAACTGTTCTCTGTCTTCAATTGAAGAA
 GATTTTCTTACAGCCTCCGAGCATTGGAGGAAGAAATCGAGGTGGACGACTGCAGAAAGTGGTTTGGAAA
 ATACAAATGTGTAGCTAATGTTTGGAAAGTAAAAAGCCAAAGGAACTACCCAGGAAGGATGGGATTA
 CCACAAGGAAAAGTTGCATTGTGCTTTAGGGGAAAAACACATTAGAAAACACCGTACGCCCTCCACAAAA
 ACAGAAGGGTCAAAGGAAAATACAGAAGAGAACACGCTCCTTGAAGTCTCAATCGTTTGTAGTCAGGCCAT
 CACACCTGAAAAGTGAAGTGGCGGGAACAAGCAACTGGCCACAACTACTCCTACCCAGAAAATATCAA
 AGGGGAACTAGAAACATCTCAAATGCTGTTTCATCCCTAGAGATGCCTATCTCTCCATGGTTAAGAAAGAT
 GTACTTTCTCCGTGTAGTGTACTCAGTGAAGCAGGGAGGCAGCCACAGAGACCATGACGTTACTCCAAACC
 CTCTTCTCCCGTTCAAATGGAGAAGCCAGCACCAGGAGAGTATGCCACAACTTAGCAGAATCTGTAAT
 GCAAGATGCCTTCATCCGATTGTCTCAGTCACAGCCACACTCCCCAGGAATCTGCAGTCAGTTTCTCT
 ATGCGAAGTGTCTCCTTCCAGTGGCTGTTGCACAAAAGATATGGTGGTCCCTCGTTCATGGAACGAGC
 TACCCAAAATGTCATTGTGCAGAGCCAGATGGCAGTGACACAGTCCCTGAGCCAAATGTCTCCTCCTG
 GCCTGACATGGAATTTGTTGAAACCTCGGCATCTTTTCTGCAGACAGTCCAGCAGACCCACTCAGAGT



[View online »](#)

GCCCTAGAAGTTGCATTGGCTTGTGCAGCCACTGTGATTGGAACCATTTCCAGTCCACAGGCCACAGAAA
GATTCGCCATGGAGCAAGAATCCCTGGTATCTACCTATGCCCAGAGAGGCACTGGGGTACAGCAAATCA
AGTGCCCCAAGCATTTCATGGCACCTTCTACAACCGAGTATTCCTTCCCATCAGCTCTGTGTGGCATGACA
CAAGTGGCAAGTCTGTCTGTCTGTGGCTTATGTGAAAAAGAAAGAGGGGACATGTCCTGTAGCTCCAA
CTGACCTCTTGCCTACATCTGGGGCTTCTGAAGAAATATCCTCCATCGGAAGTTTAGTGATGGAGAGGAG
CACAGAAGTGGGAAGGAAGCCATTGCAGAGGCTCTGCTCAGAGAGGCTACTCTGATTTTAGCAAGGCCA
GATGCTTACAGCAGCCTTGGTGAAGCTTGGAAATCTGTGAACAGAGAATCATAGAAACCACTTTAAAA
CCAGACCCTGTGCACAGAAAAGTGTCAAAGGAATGAACCTGGCACACACCTTGTCCAATGTCATCCTCAA
GCACTCCGTGGATGAACTTCACCAAGAAAACATAATGGCTCACCCCACTGATGAAAGGCATCCCTGTGGA
ACTCTGGACACCTTGTGAAAGTGTGAACAGCTGCTGCACAATGTGATCTGCTTACATTCAAAAAGA
TGAATCACATTGTAACACTCAGTGAGCATCCCTCATTTGATCAGGCTGCTGGTCAAGCCTGGGTAAGC
CTTTGCATGCCCCAGCAGCCAGCCTTTAGCAATGCACACGGTACTGGCCTTGTGCATCAGGAATCTTGTA
GAGGATGCATCTCCTAAGTCAAACAAGGGCGGAGCAAGGCCAGAAGTGGTCAACAACCCAGGTTGCAAT
CTGAATCTCCTGCAGTCATAGAATGTTTGATTCAACTGCTAAGTCATTCCTCAAGGAAAATATCTGAA
AGGGATTATGGGAGAGGATACCAGGAACCTCATCATACTAAATTATGACAGCAATGAACGAAGAGCC
TCTACAGACCTAGGAAAATTGACAACAGCAAGCGAGGGTGTAGTGGTTTCCAGGAAACTGAAGACAGCA
TTGTTCCAAACACCCAAGAGAAAATACATCTGTGCCACACCCCTAAACAATGAAGCTCAAGTTAACCTATC
CTTATTAGGTGATGACCTGTCTGTTCTGCTCAGTCTACTCTAGAGGCAAAGCAGTCCGAGGTCTATGGC
ATCACAGATTTTGCAGAAAGATTGGCAGAGACTGTTGTCTCCATGGCAACTGAAATTGCAGCAATCTGCC
TTGACAACTCCAATGGCAACAGCCCTGGTTTTGTGCTTGGAAAAGAGGGAAACGAGTTTTTAACGGCGCC
TAACGGATCCTGCCGATCCTTGAAGAGGAAGAAGGAAAACCAAGCGCCGGAAGCACCGTGAAGAAAAC
AAGCCACCTCGCTCAGTGAATCAAGAGAAAAGCTGATGAGCACCCAGAGCTGAAAGAGAAGCTGATGA
ACAGATCATGGATGAGTCCATGAACCTCGAAGACATCCCTGATTCGGTCACTTTTCCCAATGAAGT
GGCAGCCAAGATCATGAACCTCACAGAGTTTTCCATGGTGGATGGGGTGTGGCAAGGCCAGAGTTGTTCC
CGGACTCGGCTTCTGGGTGGCGATAGGTGGAACCGGCTGAAGGCCTCAAGCTGTGAGAGCATTCTGAGG
AGGACTCTGAAGCCAGGGTCTTTGTAACAGCCTGGGTTTGTGAGTACCTTAAGCCAACCAAGTATGAGC
GGCCAGCTCCGTCTCAAACAGTCCAGCTGTGAGAGCATCACCGATGAGTTTTCCAGGTTTATGTTGAAA
CAGATGGAAAACGAAGGGAGAGGGTTTGTGTTGCTGCTGGATTACTACGCAGGCAAAAATGCCAGCAGTA
TCATGAGCTCAGCGATGCAGCAGGCATGCCAGAAAACGACCACCTCAACGTGAGACCGAGCTGCCCTC
TAAGCAATCCAGTACAGAGAGCATAACAGAGGAGTTCTATAGGTACATGTTAAGGGACATCGCGAAAGAA
AGCAAAGATGGTCCCTCCTCAGACGTAGCAGCCATGATTGGACCACGGGCTGTGTCTCCTTCTACAC
GATCCCTCTGTGTTACAGACAGTCATCTATGCCTGACAGCAGGTCGCCATGCTCCAGACTAACAGTAAA
TGCGCCTGTCAAAGCCAACCTCCTTAGATGGCTTTGCCAAAACCTGCCCTCAAGATTCTGTAATGTACAG
CCAGTCAGTAGGGCTTCCCTCATCTGGCCTCTGCAATCAGATTCTGCTTGTATCGCAGAAGTGGGACTG
ACCAGATCACAAACATGCTAATTCATGAAACATGGGCCAGCTCCATTGAGGCTCTCATGAGAAAAGACAA
AATCATTGCTGATGATAGCGAGGCAGCTAATGCCAGTCTGGCCCTGTTTCCAGTGGTCTCCTTTGCAA
GTAGAGAAGAATGCCAACAGATTAGCCACCAGCAAAGGACACAGGGGGCCAACCTGCTTGTACAGGAAT
CTGTTGATTACCAGAGAAAAGATGCTGTTACTGAAGGCAATCATTCCCCAGTGTATCTCCAGGCAAAAC
AGCTCCTGTTAAAAAACCCAGTATTTTGTGATCCTAGAAGAGAAAACCTCTGCATGCCACAATGCTGCTGGT
CTCAACAGCCCTAGGCGGTCACTCTGCTCAAGGGATGTGCCTTTGATTACAGATAGAGACAGATCAGAAAG
AAGAGTGCATTGGAGAACCTGGACCTTTCTTTCCAAAGTGGCTCCCTAGAGGAAAACAGAGGCCACCA
ACCTGAAGAAAACCATCCCAGATGTGGCCAGAAATGAAGACACAGCTCCGAGCACCTGTGAGAGCTCTCGT
GACAGCCTTGAGACCAGTGGGAAGTAGAAGTGGAGGTCTTGAAGAAGACATACCCCGAGATGAGTCCC
GGAACCTCCTAGCAGCAGCGAGGAGAGTACAGGCAGCTGGTCCCAGCTGGCCAATGAGGAGGACATCCC
AGACGACACAAGCAGCTTTCTGCAGCTCAGCGAGCGGTCCATGAGTGAATTAGTAGAAGAAAAGGAGATT
CTTAAAGAACAATCAGAAAGCATAAAGGAACATGCCTCTGGACTGCCAGGGAGAGCTGCCAGCCCCAGA
GGAGCCTACTGGTATCAACTTTGACCTGGAGCCAGAGTGTCTGATGCTGAGCTTCGAGCCACTCTGCA
GTGGATAGCTGCCTCCGAACTGGGGATCCCAACAATCTACTTTAAGAAATCTCAGGAAAGCAGAATTGAA
AAGTTTCTAGATGTTGTGAAGCTTGTTCAGCAGAAGTCCCTGGAAGTGGGAGATATATTTACGCGGTTG
TCCAGTACTGCAAACTGCATGCAGAGCAGAAGGAGAGGACTCCGAGTCTCTTTGACTGGCTTCTGGAAC
AGGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR218656 representing NM_172430
Red=Cloning site Green=Tags(s)

MDVNSRLSVQSNVESPLMHEGSEPPQITSSAAGNLAGSITACKKVLRSNLSLESTDYWLQNQRTPCQIGF
VEDESENCASVCFVNLVDVNDACITENLQKLVNVSPDLPNLISSMNVQPKENEIVLLSGLASGNLQAD
FDVSYQCPWLPDILVQCARGNRPNSTNCIIFEINKFLIGLEVQERQLHLETNVLKLEDDTNCSSIEE
DFLTASEHLEEEIEVDCCRSGLENTNVSANVLESKKPKETTQEGWDYHKEKLHCALGEKHIRKHRTPSTK
TEGSKENTEENTSLKSLNRLVRPSHLKSEVAGNKQLATNYSYPENIKGELETSQLMFIIPRDAYLSMVKKD
VLSPCSVLSEQGGSHRDHVTNPPLPPVQNGEASTGEYATNLAESVMQDAFIRLSQSQPTLPQESAVSFS
MRSALLPSGCCTKDMVVPRSWNELPKIVIVQSPDGSSTVPEPNVSWPDMFVETSGIFSADESSSRPTQS
ALEVALACAATVIGTISSPQATERFAMEQESLVSTYAQRGTGVQQTQVPQAFMAPSTTEYSFPALCGMT
QVASAVAVCGLCCKEATCPVAPTDLLPTSGASEEISSIGSLVMERSTELGKEAIAEALLREATLILARP
DAYSSLGELLESVNQRIIETTSKTQTLCTESVQRNELAHTLSNVILKHSVDELHQKTTMAHPTDERHPCG
TLDTLMESVNQLLHNVICFTFKKMNHIVTLSEHPSFDQAAGQAWYKAFACPSQPLSNAHGTLVIRNLV
EDASPKSNKGGARPELVNNPRLQSEFSCSHRMFDSTAKSFPKEIYLKGMGEDTRNPHHTLNYSNERRA
STDLGKLTASEGCSGFQETEDSIVPNTQEKYICATPLNNEAQVNL SLLGDDL SVPAQSTLEAKQSEVYG
ITDFAEELAEVSMATEIAAICL DNSNGKQPWFCAWKRGNEFLTAPNGSCRSLKRKKENSAGSTVRKH
KPPRLSEIKRKADEHPELKEKLMNRVMDESMNLEDIPDSVSTFANEVAAKIMNLTEFSMVDGVWQGS
RTRLLGGDRWNRLKASSCESIPEEDSEARVFNLSLGLMSTLSQPVSRASSVSKQSSCESITDEF SRFMVK
QMENEGRGFELLDYYAGKNASSIMSSAMQACQKNDHLNVRPSCPSPKQSSSTESIT EEFYRYMLRDI
SKDGASSRRSSHDTGLLSPSTRSPLCYRQSSMPDSRSPCSRLTVNAPVKANSLDGFANCPQDVS
PVSRASSSGLCKSDSCLYRRSGTDQITNMLIHETWASSIEALMRKNKIIADDSEANASPGPVSSG
SPLQVEKNANRLATSKGHRGPTLLVQESVDYQRKDAVTEGNHSPVSSPGKTAPVKKPSDFPRRET
SACHNAAGLNSPRRSLCSRVDPLIQIETDQKEECIGEPGPFLLSQSGSLEETEGHQPEETIPD
VARNEDTAPSTCQSSRDSLETSGEVEVEVLKEDI PRDESRNPPSSSEESTGWSQLANEEDI
PDDTSSFLQLSERSMSELVEEKEILKEQSESIKEHASGLPGRAASPQRSLLVINFDLEPEC
PDAELRATLQWIAASELGIPTIYFKKSQESRIEKFLDVVKLVQKSWKVGDI FHAVVQYCKLHAEQKERT
PSLFDWLELGL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9035_c12.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_172430

ORF Size: 4974 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

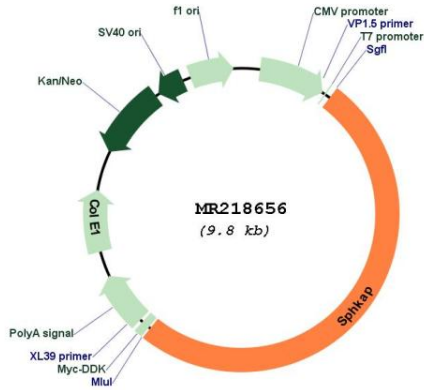
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_172430.4](#)
 RefSeq Size: 6512 bp
 RefSeq ORF: 4977 bp
 Locus ID: 77629
 Cytogenetics: 1 C5
 MW: 182.5 kDa

Product images:



Circular map for MR218656