

Product datasheet for MR225156

Unc13a (NM_001029873) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Unc13a (NM_001029873) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Unc13a
Synonyms: 2410078G03Rik; Munc13-1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR225156 representing NM_001029873
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGATCGCC

ATGTCTCTGCTGTGCGTGGGAGTCAAAAAAGCCAAGTTTGACGGTGCCCAAGAGAAGTTCAACACATACG
 TGACGCTGAAGGTGCAGAACGTGAAGAGCACTACCATAGCTGTACGTGGCAGCCAGCCCAGCTGGGAGCA
 GGACTTCATGTTGAGATCAACCGCTGGATCTAGGCCTGACCGTGGAGGTGTGGAACAAGGGTCTCATC
 TGGGACACGATGGTGGTACTGTGTGGATCCCCTGCGGACCATCCGCCAGTCCAATGAGGAGGGCCAG
 GAGAGTGGCTCACACTGGACTCTCAGGCCATCATGGCGGACAGTGAGATCTGTGGGACCAAGGACCCAC
 CTTCATCGCATCCTCCTGGACGCTATTCGAGCTGCCGTTGGACATCCCTGAGGAGGAGGCACGCTAC
 TGGGCCAAGAAGCTGGAGCAGCTGAATGCCATGCGTGACCAGGATGAGTACTCCTTCCAGGACCAGCAGG
 ACAAGCCGCTGCCAGTGCCAGCAGCCAGTGCTGCAACTGGAATTACTTTGGCTGGGAGAACAGAATGA
 CGACCCCGACAGTGCGGTGGATGACCGGGACAGTGACTATAGGAGTGAGACCAGCAACAGCATCCCACCG
 CCCTACTATACGACTTCGCAGCCCAACGCCTCTGTGCACCACTACTCCGTGCGACCGCCCTCTGGGGT
 CCCGGGAGTCCTACAGTGACTCCATGCACAGCTATGAGGAGTTCTCTGAGCCGCGGGCGCTCAGCCCCAC
 AGGCAGCAGCCGCTATGCTTCTCCGGGAGCTGAGCCAGGGAAGCTCACAGTGAGCGAGGACTTCGAC
 CCTGATGAGCACAGCCTGCAGGGCTCGGAGCTGGATGACGAGAGGGACCGGATTTCTTACTCCTGTGC
 ACAGTCCGTGAGTTACCACAAGGACTCACCCGCTGGGACCAGGACGATGAGGACCTGGAGGACCTGGA
 GGACCTGGAAGATGAGGAGCTGCCCGAGGAGGAGGAGGAGTTGGAGGAGGAGGGGAGGAGGAATTGGAG
 GAAGAGGATTTGGAGGAGGAGGAGGAGGTGCCTGATGACCTGGCCAGCTACACCCAGCAGGAGGACACCA
 CTGTGGCTGAGCCCAAAGAGTTCAAGCGGATCAGCTTCCAACGGCTGCGCCTCAGAAGGATGACAAGGT
 TTCAGTGTGCCTACAGAGGCCCCCGAGGTGGCCAAAGGCATCCCCAAAGCAGCCACACCCGAGGAGAAG
 GCAGCTGCAGAGCGTGCGCAGGAAGCCGAGCCCCCAAGTCTGAGGAGAGTTTCAGATCTCGAGAGGAGG
 AAGAGGGCCAGGAAGGGCAGGATGCCATGTCCAGAGCCAAAGCCAAGTGGTTGCGAGCCTCAACAAGGT
 GCGCATGCAGCTGCAGGAGGCCGAGGAGAAGGGGATATGTCTAAGTCTCTATGGTTCAAAGCGGTCCT



[View online »](#)

GGTGGTGGCCTTATCATCATTGACAGCATGCCAGACATCAGGAAACGGAAGCCATTCCCCTCGTGAGCG
 ACCTGGCTATGTATTGGTGCAGTCTCGGAAGGCAGGCATCACCTCGGCCTTGGCCTCCAGCACGTTGAA
 CAATGAAGAGCTGAAAAATCACGTTTACAAGAAGACCCTGCAAGCCTTAATCTACCCCATCTCCTGCACC
 ACGCCGCACAATTTGAGGTGTGGACGGCCACCACGCCCACTACTGCTATGAGTGCAGGGGCTGCTGT
 GGGGCATCGCGCGGCAGGCATGCGATGCACCGAGTGGCGTAAAGTCCACGAGAAGTCCAGGACCT
 GCTCAATGCGGATTGCCTGCAGCGGGCGCTGAGAAGAGTTCCAAGCATGGCGCTGAAGACCCGACGCGAG
 AACATCATCATGGTGTGAAGGACCGCATGAAGATCCGCGAGCGCAACAAGCCTGAGATCTTCGAGCTTA
 TCCAAGAGATCTTCGCGTCAACCAAGAGCGCACACACAGCAGATGAAAGCTGTCAAGCAGAGTGTGCT
 GGACGGCACATCCAAGTGGTCTGCCAAAATTAGCATCACAGTGGTCTGTGCCCAGGGCTTCAGGCAAG
 GACAAGACAGGATCCAGTGACCCTTATGTACCCTCCAGGTTGGGAAGACCAAGAAAAGGACAAAAACCA
 TCTACGGGAACCTCAACCCAGTGTGGGAAGAGAAATTTTCATTTTGAATGTCACAACCTCCTCGACCGGAT
 CAAGGTTCTGTGTTGGGATGAAGATGACGACATAAAATCCCGTGTGAAACAAAGGTTTAAAGAGGAGTCT
 GATGACTTCTAGGGCAGACAATCATCGAGGTGCGGACGCTTAGCGGCGAGATGGATGTGTGTTACAATC
 TGGACAAGAGAACGGACAAGTGGCGGTGTGGGGGCCATCCGGCTTACATCAGTGTGGAGATCAAAGG
 GGAGGAGAAGGTGGCGCCTACCATGTCCAGTACACCTGTCTGCATGAGAACCTGTTCCACTTTGTGACG
 GACGTGCAAGAACAATGGTGTGGTGAAGATTCCCGATGCCAAGGGTGCAGCAGCCTGGAAGGTTTACTACG
 ATGAGACGGCCAGGAGATCGTGGATGAGTTTGCATGCGCTATGGTGTGAGTCCATCTACCAAGCCAT
 GACCCACTTTGCCTGCCTCTCCTCCAAGTATATGTGCCCTGGGGTACCCGCTGTCATGAGCACCTGCTT
 GCCAACATCAACGCCTACTACGCACACACCACCGCCTCCACCAACGTGTCTGCCTCTGACCGCTTCGCTG
 CCTCTAATTTTCGGGAAAGAGCGCTTTGTGAAACTTCTGGACCAGTACACAATTTCTGCGGATCGACCT
 GTCCATGTACCGGAACAACCTCCAGCCAGCAGCCTGAGCGGCTGCAGGATCTCAAGTCCACGGTGGAC
 CTGCTACCAGCATCACCTTCTCCGGATGAAGGTTTCAAGACTGCAGAGCCCGCGTGCAGCCAGG
 TAGTGAAAAGACTGTGGAAGCCTGCCTCACTCACTATGAGTACATCTTCAACAACATGCCATGAGT
 CTATGGCCGGGAGTACCAACCGATCCGGCCAAGAAGGGGAGGTTCCCCAGAGGAGCAAGGCCCTAGC
 ATCAAGAACCTGGATTTCTGGTCCAAGCTGATCACCTCATCGTGTCTATCATCGAGGAGGATAAGAATT
 CTTACACACCCTGCCTCAATCAGTTTCCCAGGAGCTCAATGTGGGAAGATCAGTGCTGAGGTGATGTG
 GAGCCTATTTGCCAAGACATGAAGTACGCCATGGAGGAACATGACAAACACCGGCTGTGAAGAGCGCA
 GATTACATGAACCTGCACCTCAAGGTGAAGTGGCTGTACAATGAGTACGTGGCCGAGCTGCCACCTTCA
 AGGACCGTGTGCCTGAGTACCCTGCGTGGTTTGGCCCTTCGTCATCCAGTGGTGGATGAGAATGAGGA
 GGTGTCCCGGACTTCTGCATGGTGCCTCGAGCGGACAAGAAGGACGGGTTCCAGCAGACCTCAGAG
 CAGCCCTGTTCTTGTCTCAGTGGTGGACGTCTTCTCCAGCTTAACCAGAGTTTCGAGATCATCAAGA
 AGCTGGAGTGTCTGACCCAGATCGTGGGCCATTACATGCGGCGTTTTGCCAAGACCATTAGCAATGT
 GCTTCTCCAGTATGCAGACATCGTTTCCAAGACTTCCGCTCCTACTGCTCCAAGGAGAAGGAGAAAGTG
 CCCTGCATCCTCATGAACAACACACAGCAACTACGAGTGCAGCTGGAGAAGATGTTTGGGCGATGGGCG
 GGAAGGAGCTGGATGCCGAGGCCAGTGGCACCTGAAGGAGTGCAGGTGAAACTCAACAATGTCCTGGA
 TGAACCTCAGCCATGTGTTTGCACACAGCTTCCAGCCACACATTGAGGAATGCGTCAGACAGATGGGTGAC
 ATCCTGAGCCAGGTGAAGGGCACAGGCAATGTACCTGCCAGTGCCTGCAGCAGCTGGCCAGGATGCAG
 ACAATGTGCTGCAGCCATCATGGATCTTCTGGACAGCAACCTCACCTGTTTGCCAAAATCTGTGAGAA
 GACAGTTCTGAAGCGGGTGTGAAGGAGCTCTGGAAGCTGGTGTGAACACAATGGAGAAGACCATCGTC
 CTGCCACCGCTCACTGACCAGACGATGATTGGCACCTCTTGGAAAACATGGCAAGGGCTAGAAAAGG
 GCAGGGTGAACCTGCAAGCCACTCAGACGGGACACAAATGATCTTCAATGCTGCCAAGGAGCTGGGCCA
 GCTGTCCAAACTTAAGGATCACATGGTGCGGGAAGAAGCCAAGAGCTTGACCCGGAAGCAGTGTGCTGTT
 GTTGAACCTGGCCCTGGACACCATCAAGCAATACTTCCACGCGGGGGCGTTGGCCTCAAGAAGACCTTCC
 TGGAGAAGAGCCCGACCTCCAGTCCCTGCGCTACGCCCTGTGCTCTACACGCAAGCCACCGACCTGCT
 CATCAAAACCTTCGTGCAGACGAGTACGCGCAGGGCTCTGGTGTGGAGGACCCTGTAGGTGAAGTGTCC
 GTCCACGTGGAGCTGTTACACATCCAGGAACTGGGAACAGAAGGTACAGTGAAGGTGGTGGCCGCCA
 ATGACCTCAAGTGGCAGACTTCTGGCATCTCCGCCCTTCATCGAGGTCAACATCGTTGGACCTCAGCT
 TAGCGACAAGAAACGCAAGTTCCGCCACCAATCCAAAAACAACAGCTGGGCGCCCAAGTATAACGAGAGC
 TTCCAGTTCTCCCTGAGCGCCGACGCGGGCCCGAGTGTACGAGCTGCAGGTGTGCGTGAAGGACTACT
 GCTTTGCGCGGAAGACCGCACGGTGGGGCTGGCGGTGCTGCAACTGCGAGAGCTGGCCAGCGCGGGAG
 CGCCGCGTGTGGCTTCCACTCGGCCCGGCATCCACATGGACGACACGGGGCTCACAGTGTGCGCATC
 CTGTGCGACGCGACGACGATGAGGTGGCAAGGAATTTCGTAAGCTCAAGTCCGACACGCGCTCAGCCG

AGGAGGGCGGTGCCGCGCTGCGCCC

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR225156 representing NM_001029873
Red=Cloning site Green=Tags(s)

MSLLCVGVKAKFDGAQEKFNYYVTLKVNKSTTIAVRGSQPSWEQDFMFEINRLDLGLTVEVWNKGLI
WDTMVGTVWIPLRTIRQSNEEGPGEWLTLDSQAIMADSEICGTDPTFHRILLDAHFEPLDIPPEEARY
WAKKLEQLNAMRDQDEYSFQDQDKPLVPSSQCCNWNYPGWGEQNDPDSAVDDRSDYRSETSNSIPP
PYTTTSQPNASVHQYSVRPPPLGSRESYSDSMHSYEEFSEPRAL SPTGSSRYASSGELSQQSSQLSEDFD
PDEHSLQGESELDDEDRDSYHSCSSVSYHKDSPRWDDDEDLEDELEDEELPEEEEEEEEEEEEE
EEDLEEEEEVPDDLASYTQQEDTTVAEPKEFKRISFPTAAPQKDDKVSAPVTEAPEVAKGIPKAATPEEK
AAAERAQEAEPKSEESFRSREEEGQEGQDAMSRAKANWLRAFNKVRMQLQEARGEGDMSKSLWFKGGP
GGGLIIDSMPDIRKRKPIPLVSDLAMSLVQSRKAGITSALASSTLNNEELKNHVYKKTLLQALIYPI SCT
TPHNFVWTATPTCYECEGLLWGIARQGMCRCTECGVKCEKQCQDLLNADCLQRAAEKSSKHGAEDRTQ
NIIMVLKDRMKIRERNKPEIFELIQEIFAVTKSAHTQQMKAVKQSVLDGTSKWSAKISITVVCAQGLQAK
DKTGSSDPYVTVQVGTKKRKTIIYGNLNPVWEENFHFECNSSDRIKVRVWEDDDIKSRVKQRFKRES
DDFLGQTIIEVRTLSEMDVWYNLDRKTDKSAVSGAIRLHISVEIKGEEKVAPYHVQYTCLENLHFHVT
DVQNNGVVKIPDAKGDADAWKVYDETAQEIVDEFAMRYGVESIYQAMTHFACLSKYMCPGVPVAVMSTLL
ANINAYYAHTTASTNVSASDRFAASNFGKERFVKLLDQLHNSLRIDL SMYRNNFPASSPERLQDLKSTVD
LLTSITFFRMKVQELQSPRASQVVKDCVKAQLNSTYEYIFNNCHEL YGREYQTDPAKKGEVPPEEQGPS
IKNLDWFVSKLITLIVSII EEDKNSYTPCLNQFPQELNVGKISAEVMWSLFAQDMKYAMEEHDKHRLCKSA
DYMNLHFVKVWLYNEYVAELPTFKDRVPEYPAWFEPFVIQWLDENEEVSRDFLHGALERDKKDGFFQQTSE
HALFSCSVVDVFSQLNQSF EIIKKLECPDPQIVGHYMRRAKTI SNVLLQYADIVSKDFASYCSKEKEK
PCILMNNTQQLRVQLEKMF EAMGGKELDAEASGTLKELQVKNVLDDEL SHVFATSFQPHIEECVRQMGD
ILSQVKG TGNVPASACSSVAQDADNVLQPI MDLLDSNL TFAKICEKTVLKRVLKELWKL VMNTMEKTIV
LPPLTDQTMIGTLLRKHGKLEKGRVKLP SHSDGTQMI FNAAKELGQLSKLKDHMVREEAKSLTPKQCAV
VELALDTIKQYFHAGGVGLKKTFL EKSPDLQSLRYALSLYTQATDLLIKTFVQTQSAQGSVGEDPVGEVS
VHVELFTHPGTGEQKVTVKVVAANDLKWQTS GIFRPFIEVNI VGPQLSDKKRKFATKSKNNSWAPKYNES
FQFSLSADAGPECYELQVCVKDYCFAREDRTVGLAVLQLRELAQRGSAACWLP LGRRIHMDDTGLTVLRI
LSQRSNDEVAKEFVKLKS DTRSAEEGGAAPAP

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9105_g07.zip

Restriction Sites:

SgfI-MluI

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_001029873.2](#), [NP_001025044.2](#)

RefSeq Size: 7983 bp

RefSeq ORF: 5139 bp

Locus ID: 382018

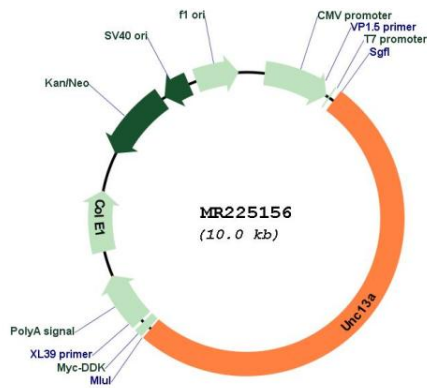
UniProt ID: [Q4KUS2](#)

Cytogenetics: 8 B3.3

MW: 193.8 kDa

Gene Summary: Plays a role in vesicle maturation during exocytosis as a target of the diacylglycerol second messenger pathway. Involved in neurotransmitter release by acting in synaptic vesicle priming prior to vesicle fusion and participates in the activity-dependent refilling of readily releasable vesicle pool (RRP). Essential for synaptic vesicle maturation in most excitatory/glutamatergic but not inhibitory/GABA-mediated synapses. Also involved in secretory granule priming in insulin secretion. Plays a role in dendrite formation by melanocytes (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR225156