

Product datasheet for **MR215810**

Usp6nl (NM_001080548) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Usp6nl (NM_001080548) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Usp6nl
Synonyms:	AI316785; mKIAA0019; RNTRE; TRE2NL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR215810 representing NM_001080548
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAATTCGACCAGGATGTAGCACTCAAACCTGTCTAAGAACGAGCTGAAATAGTTGCTAAATATGACA
 GAGGGCGGAAGGTGCAGAGATCGAGCCCTGGGAAGATGCTGATTATCTTGTTTACAAAAGTCACCGATAG
 ATTTGGCTTTTTACATGAGGAGGAGCTCCCATACCATAATGCAGCTGCGGACCGGCAAAAAGCAACTGGAA
 ATCGAAAGGACTTCCAAGTGGCTGAAAAATGCTGAAAAAATGGGAGAGATACAAGAACACCGAGAAGTTTC
 ATCGACGAATTTACAAAGGAATTCACCTCCAGCTCCGAGGTGAAGTCTGGGCTCTTCTTCTTGAGATCCC
 TAAATGAAAGAAGAAACAAGAGACCTTTATAGTAAATTAACACACAGAGCACGGGGTTGTTACCTGAT
 ATCAGACAAATAGACCTTGACGTGAACCGCACATTCAGGGACCATATTATGTTTAGAGACAGATACGGTG
 TTAAGCAACAGTCTTATCCATGTTCTCGCTGCTTATTCTATCTATAATACGGAAGTCGGTACTGCCA
 AGGGATGAGTCAGATCACGGCCTTGCTCCTCATGTACATGAACGAGGAAGACGCCTTCTGGGCCCTGGTC
 AAGCTCTTCTCGGCCCAAGCACGCAATGCACGGTTTTTTTTGTCCAAGTTTTCTTAAACTCTTGAGAT
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 AATCTACACAAGTTTTTACACAATGAAATGGTTTTTTCAGTGTTCCTTGATCGAACTCCCTTCAGGCTG
 AACCTCAGGATATGGGACATCTATATCTTTGAAGGAGAGCGAGTCCTTACTGCTATGCTTACACAACTCT
 TGAAACTACACAAAAGCATCTGATGAAGTTGTCTATGGAAGAACTTGTAAGAAATTTCTTCAGGAGACTCT
 CGCCAAGGATTTTTCTCGAGGATGATTTTGAATAGAGCAACTCAAGTTTCTATGCCAGAATAAAG
 CGGGCAAAGTTAGATCTCCAGAGCCTGGTAAGGAGGATGAATATCCAAGAAACCCTTGGGCGCAGCTTC
 CACTGAGTCTGCTTGTGTTAATCACTTGAGCAACGGACAAAGAAGTGTGGCCGGCCAGCCCCAAC
 AAGCAGCAGGAGAGAAGATGGATCGCCTCGCAAGAACCATGAGCACTCTCCTGTCCATCACAGTAGAAAC
 GGCACACCAGAAAAGGCCGCGCAGTCACGGCGGAAGTCCGTGGATGAGGGGAGTAAAAATCTCAAGCATG
 AGGCAGAGTCTCAGAGAAAACCTTCACCGGTATGCAGGACAGTTCAGACACTATAACCATGCAGCTGC
 TAACCAAATAGCAATGCAATTTCAAACGTCAGGAAGGAATTTATGCCCAAGTGGAGAAAACCATCAGAT
 GCCTCAGTATTGAAAGAACTACTAAATATGCCGTGCAAGGCAAAAAGTCACTCAGCTCTTCCGCTCTTC
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 GGGTGAAGGGAAGCGGGTTCTAACGCTCCCAGTATGACAACGTGCCTGGGGTGAGAGTGAGCATGGG
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 GTCCTCCAAAAGTACCAACAAGTTTACGTTTAAAGTGCAGCCTCCAGCCATGTACGATACCCACCCCA
 GCTACCAGAGGAGGACCACAGAGCTGCATATCCACCCTCTACAGCAACCCCCCTGTCTACCATGGAAAT
 TCTCCAAAACACGTCCCTACTGCTCACAGTGGTTTTGTGTCTACACAGATCAGCCCCAGGCTCAAATTA
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 AACTCCTGTTGTTCTGCCTCTAGTTCGAATTGAAGTCCTTCCATTGACATGGGTGCCAGGGGCTACGGC
 AGTTCGGGGTACCAAAGAATGGACAGTTCATCCTTCTCCGGTGGACTATTTGCCAGAGAACAGAAAAT
 GGTCAGAAGTTAGTTACACATACAGACCGGAGATGCATGGCCAATCATGGACTCGGGATGCTCACCGTAG
 CCACTTAAGCAATTTACCAAATATGCAGCCTTTCAGCACATACCGTTTTCAGGCCATGGCCTTCCAGAA
 GTGTCTGTAGACAGTCCAGTGAAGTATAAGATGTCTGCAGCTGTGGAAGATGCCAGTCTCCTGGGTATC
 CATATGCAGGGCCCTCACCTCCGCACATCACTACAGAAATGGAGAGGGACTTTCTGTGCAGGAATCAGT
 GTTGCTG

ACGCGTACGCGCGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR215810 representing NM_001080548
 Red=Cloning site Green=Tags(s)

MNSDQDVALKLAQERAEIVAKYDRGREGAEIEPWEDADYLVYKVTDRFGFLHEEELPYHNAADRQKQLE
 IERTSKWLKMLKKWERYKNTKFKHRIYKGIPLQLRGEVWALLLEIPKMKEETRDLYSKLKHRARGCSPD
 IRQIDLDVNRTRFRDHIMFRDRYGVKQQLFHVLAAYSIYNTEVGYCQGMQITALLLMYMNEEDAFWALV
 KLFSGPKHAMHGFFVQGFPKLLRFQEHHEKILNKFLSKLKQHLDSQEIYTSFYTMKWWFFQCFLDRTPFRL
 NLRIWDIYIFEGERVLTAMSYTILKHKHLMKLSMEELVEFLQETLAKDFF FEDDFVIEQLQVSMELK
 RAKLDLPEPGKEDEYPKKPLGQLPPESACVNHLSNGQRSVGRPSPKTSSRREDGSPRKNHEHSPVHHSRN
 GTPERAGQSRKSVDEGSKNLKHEAESQRKPSGMDSSRHYNHAAANQNSNAISNVRKEFMPKWRKPSD
 ASAIERTTKYAVEGKSHSALPALPVAIPGSAETRLPNSRQKMKALDGGEGKRGSNASQYDNVPGGESEHG
 ASAEERPETHPHSPRKHPEPSPPKVPNKFTFKVQPPSHVRYPPQLPEEDHRAAYPPSYSNPPVYHGN
 SPKHVPTAHSGFVSTQISPRPQINPSRRPYGSSLSVDTSPKAYS RPTPVLPSSRIEVLPIDMGARGYG
 SSGSPKNGQFILPPVDYLPENRWSEVSYTYRPEMHGQSWTRDAHRSHLSNLPNYAAFQHIPFQAHGLPE
 VSVDSPVRYKMSAAVEDASPPGYPYAGSPSAHHYRNGEGLSVQESVLL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM_001080548

ORF Size: 2457 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_001080548.1](#), [NP_001074017.1](#)

RefSeq Size: 4824 bp

RefSeq ORF: 2460 bp

Locus ID: 98910

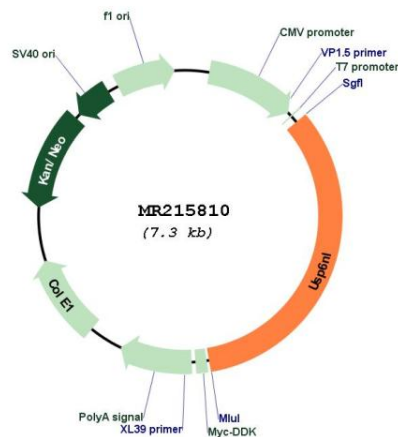
UniProt ID: [Q80XC3](#)

Cytogenetics: 2 A1

MW: 94 kDa

Gene Summary: Acts as a GTPase-activating protein for RAB5A and RAB43. Involved in receptor trafficking. In complex with EPS8 inhibits internalization of EGFR. Involved in retrograde transport from the endocytic pathway to the Golgi apparatus. Involved in the transport of Shiga toxin from early and recycling endosomes to the trans-Golgi network. Required for structural integrity of the Golgi complex (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR215810