

Product datasheet for **RC227413**

USP6NL (NM_014688) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	USP6NL (NM_014688) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	USP6NL
Synonyms:	RNTRE; TRE2NL; USP6NL-IT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC227413 representing NM_014688
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAATTCAGACCAGGATGTAGCACTCAAACCTGCCAGGAGCGAGCTGAAATAGTTGCTAAATATGACA
 GAGGACGAGAAGGTGCAGAGATTGAACCTTGGGAAGATGCTGATTACCTGTTTTACAAAGTCACAGATAG
 ATTTGGCTTTTTACATGAGGAGGAGCTCCAGATCATAATGTGGCTGTGGAACGGCAAAAGCACCTGGAA
 ATTGAAAGAACTACCAAATGGCTGAAAAATGCTGAAAGGATGGGAAAAATACAAGAACACTGAAAAGTTTC
 ATAGGCGAATTTACAAAGGAATACCACTCCAGCTCAGAGGTGAAGTCTGGGCCCTCCTTCTTGAGATCCC
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 ATCAGACAAAATAGACCTGGATGTCAACCGCACATTTCCGGACCACATTATGTTTAGAGACAGATATGGTG
 TTAAGCAACAATCCTTATCCATGTGCTTGTGCCTATTCTATTATAACACGGAAGTCGGGTATTGTCA
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 GGCAAAGGATTTTTTCTTGAAGATGATTTTGTGATAGAGCAACTTCAGATTTCTATGACAGAATAAAG
 CGGGCAAAGTTAGACCTCCAGAACCTGGTAAAGAGGATGAATATCCAAGAAGCCCTTGGGCGAGCTTC
 CACTGAACTTCAGTCTTGGGGCGTCCATCACTTGAGCAACGGACAGAGGAGCGTGGGCCGCGCAGAGC
 GCTGGCCAGCGGCAGGAGGAGAGCGGGCGCCACAGGAGGCACGAGCACTCCCGCACCCCGCAGAGC
 AGGACCGGGACGCCGAGAGAGCACAGCCGCAAGACGGAATCGGTGGAGGAGGAGAGCAAAAAGCTTA
 AAGATGAGGCAGATTTTCAAAGAAAACCTCCATCGGGTCCACAGGACAGTTCAGGCAATATAATCACGC
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 CGCTCGCAGTTACCGTCCAGGTCTGCCGAGGTGCGGGTGTCAAACGTGCGGCCAAAGATGAAGGCCCT
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 AGCGGGCGTTCCGTGGAGGAGGCGCTGGAAGGGCTTACTCCAGAGCCCGGCATGCCCTTTACCTC
 CTAGCCCGAGAAAGCACGCTGAGCCAAGTTCTAGTCCATCAAAGTATCCAACAAGTTTACTTTTAAAGT
 ACAGCCTCCAAGTCATGCACGATATCCGTCCCAGCTAGATGGGGAAGCCCGAGGGCTAGCTCATCCCCC
 TCTACAGCAATCCCCCGTTTACCACGGAAACTCTCCAAACACTTCCCTACTGCCAACAGCAGTTTG
 CTTCTCCACAGTTTAGCCCTGGGACTCAACTGAATCCTTCCAGGAGACCTCATGGTTCTACTCTTTCCGT
 CAGTGTCTTCCGGAGAAATCTTACAGCCGCCAAGCCCTTGTACTGCCGTCTAGTCGAATAGAAGTC
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 GCAGGGACAATCATGGACCCGAGATGCTAGCCGTGGCAATTTACCAAAATACTCAGCCTTCAACTCGCA
 CCCTTTCAGGACCATGGCTCCCTGCAGTTTCTGTAGATAGTCCCGTGAGATATAAAGCTTACCGGCCG
 CAGAAGATGCCAGTCCATCTGGATATCCATATTCAGGGCCCCCGCTCCAGCCTACCACTACAGGAATCG
 GGACGGGCTTTCATCCAAGAGTCAGTGTGCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC227413 representing NM_014688
Red=Cloning site Green=Tags(s)

MNSDQDVALKLAQERAEIVAKYDRGREGAEIEPWEDADYLVYKVTDRFGFLHEEELPDHNAVERQKHLE
IERTTKWLKMLKGWEKYKNTTEKFHRIYKGIPLQLRGEVWALLLEIPKMKEETRDLYSKLKHRARGCSPD
IRQIDLDVNRTRFRDHIMFRDRYGVKQQLFHVLAAYSIYNTEVGYCQGMSTITALLLMYMNEEDAFWALV
KLFSGPKHAMHGFFVQGFPKLLRFQEHHEKILNKFLSKLKQHLDSQEIYTSFYTMKWWFFQCFLDRTPFTL
NLRIWDIYIFEGERVLTAMSYTILKHKHMKLSMEELVEFFQETLAKDFFEDDFVIEQLQISMTLTK
RAKLDLPEPGKEDEYPKKPLGQLPPELQSWGCVHHL SNGQSVGRPSPLASGRRESGAPHRRHEHSPHPQS
RTGTPERAQPPRRKSVVEESKCLKDEADFQRKLPSPGQDSSRQYNHAAANQNSNATSNIRKEFVPKWNKP
SDVSATERTAKYTMGKGRAHPALAVTVPGPAEVRVSNVRPKMKALDAEDGKRGSTASQYDNVPGPELD
SGASVEEALERAYSQSPRHALYPPSPRKHAEPSSSPSKVSNKFTFKVQPPSHARYPSQLDGEARGLAHP
SYSNPPVYHGNSPKHFPTANSSFASPQFSPGTQLNPSRRPHGSTLSVSASPEKSYSRPSPLVLPSSRIEV
LPVDTGAGGYSNGSGSPKNGKLIIPPVDYLPDNRWSEVSYTYRPETQGGSWTRDASRGNL PKYSAFQLA
PFQDHGLPAVSVDSPVRYKASPAEADASPSGYPYSGPPPPAYHYRNRDGLSIQESVLL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8079_e01.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:


ACCN: NM_014688

ORF Size: 2484 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_014688.4](#)

RefSeq ORF: 2487 bp

Locus ID: 9712

UniProt ID: [Q92738](#)

Cytogenetics: 10p14

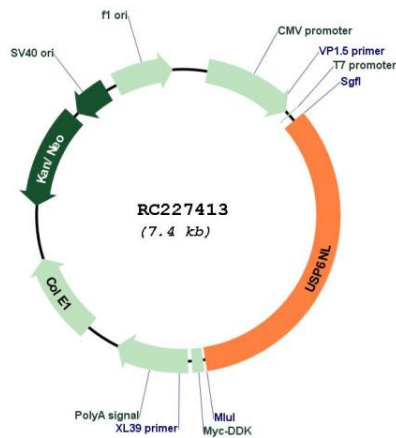
Domains: TBC

Protein Families: Druggable Genome

MW: 93.9 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.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC227413