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Product datasheet for RC227073

SUPT20HL1 (NM_001136234) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	SUPT20HL1
Synonyms:	FAM48B1; SPT20L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC227073 ORF sequence, codon optimized.
Due to the complexity of NM_001136234, the ORF clone is codon optimized for mammalian Expression.
The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGATCGGGACCTGGAGCAGGCCCTGGATCGCGCGGAGAACATCATTGAGATCGCCCAGCAACGCCCAC
CACGGCGGAGATATTCTCCCAGGGCAGGAAAAACCCTGCAGGAGAAGCTCTACGATATTTACGTCGAGGA
GTGCGGGAAGGAACCAGAGGATCCCCAGGAGCTGAGGTCCAACGTCAACTTGCTGGAGAAACTTGTGCGG
CGCGAATCATTGCCATGTTTGTTGGTAAATCTTTACCCCGGGAATCAGGGATATTCCGTAATGCTTCAGA
GAGAAGATGGCTCCTTCGCAGAAACAATCAGGCTGCCTTATGAGGAACGGGCACTGCTGGATTATCTCGA
TGCCGAAGAGCTGCCTCCCGCCTTGGGCGATGTGCTGGATAAGGCTTCAGTGAATATTTTTCACTCCGGC
TGCGTGATAGTCGAGGTCCGAGACTACAGACAATCATCTAACATGCAACCGCCCGGATATCAGTCCCGCC
ACATTCTCCTGCGCCCCACAATGCAGACACTGGCTCATGATGTGAAGATGATGACACGGGACGGTCAGAA
ATGGTCCCAGGAGGATAAACTGCAGCTGGAATCTCAACTGATTCTGGCGACTGCTGAACCATTGTGTCTT
GACCCCTCCGTCGCCGTGGCTTGTACGGCTAACAGACTTCTCTATAATAAACAGAAGATGAATACAGACC
CTATGAAGCGGTGTCTTCAGCGCTATTCATGGCCTAGCGTGAAGCCCCAGCAGGAGCAGAGCGACTGTCC
ACCGCCACCTGAGCTGAGAGTGTCAACCAGCGGGCAGAAAGAGGAGCGCAAGGTCGGACAACCATGTGAA
CTCAATATCGCGAAAGCCGGATCATGCGTTGACACATGGAAAGGCAGACCATGCGACCTGGCCGTGCCTA
GTGAGGTCGATGTGGAAAAACTGGCAAAAGGATATCAGTCAGTGACAGCTGCTGACCCACAGCTGCCCGT
CTGGCCTGCTCAGGAGGTGGAGGATCCCTTCGGATTCGCCCTGGAAGCCGGCTGTCAGGCTTGGGATACT
AAACCTTCAATTATGCAGTCATTTAATGACCCACTTCTTTGCGGTAAGATCAGACCTAGAAAGAAAGCCC
GCCAAAAGAGCCAAAAGAGCCCTTGGCAGCCGTTCCCCGACGATCATAGCGCATGTCTTAGACCAGGGAG
TGAGACGGATGCCGGTCGCGCTGTGTCACAGGCCCAGGAATCCGTTCAATCCAAAGTCAAGGGACCTGGC
AAGATGTCACACTCCTCCTCTGGTCCAGCCTCCGTTTCACAGCTCAGCAGCTGGAAAACCCCAGAGCAGC
CAGACCCCGTCTGGGTTCAGAGTTCTGTATCAGGGAAAGGCGAAAAGCATCCTCCCCCTAGGACCCAGTT
GCCTTCTTCTTCCGGGAAGATATCTTCTGGCAATTCTTTCCCACCCCAGCAAGCCGGAAGTCCACTGAAA
CGCCCTTTTTCCGCCGCCGCGGCTATCGCGGCTGCTGCTGCGGCCGCCGCAGCAGCTGCCGCTGCAGCCG
CCGCCGCAGCACCTGCTCCTGCGCTTGCCGCAGCCGCGGCACCTGCCCTGGCCGCTGCGGCGGCTCCAGC
GCTGGCGGCCGCTGCCGCTCCCGCCCCTGCCCCCGCCGCCGCCCCCGCTGTGGCAGCCGCGCCGGCCGCA
GCTGCCAGTGCTGCACCAAGTCACAGTCAGAAACCCAGCGTGCCCCTGATACAGGCGAGTAGGCCATGTC
CTGCCGCCCAGCCCCCTACCAAGTTTATCAAGATAGCTCCAGCAATCCAGCTGAGAACTGGTAGTACTGG
TCTGAAGGCCATTAATGTGGAAGGACCCGTACAGGGCGCGCAGGCCCTGGGGTCCTCCTTTAAGCCGGTT
CAGGCCCCCGGTTCTGGGGCGCCCGCACCTGCCGGTATTTCTGGGTCCGATCTGCAGTCCAGTGGCGGGC
CATTGCCAGATGCGCGGCCCGGTGCAGTTCAAGCGTCCAGCCCAGCACCCCTCCAATTCTTTCTTAATAC
CCCAGAGGGACTTAGGCCCCTTACCTTGTTGCAGGTGCCCCAGGGTTCCGCTGTTCTGACCGGCCCTCAG
CAGCAGAGTCATCAGCTGGTGTCCCTGCAGCAATTGCAGCAACCTACAGCCGCTCACCCTCCCCAACCTG
GACCACAGGGTAGCGCACTGGGCCTCAGCACACAGGGACAAGCTTTCCCAGCCCAACAGCTCTTGAAAGT
CAACCCAACACGCGCTAGATCTGGCCTCCAGCCACAGCCTCAGCCTGCTGTACTCTCTCTTCTGGGCTCC
GCGCAGGTTCCCCAGCAGGGCGTACAGCTTCCCTCCGTGCTCCGCCAACAGCAGCCTCAACCGCAGCCAC
CGAAGCTGCAGCTTCAGCCACAGTGGCAGCCTAAGCCGAGGCAGGAGCAGCCCCAGTCCCAGCAGCAGCA
GCCCCAACACATCCAGCTCCAGACTCAGCAATTGAGGGTCTTGCAGCAGCCTCAGCATATCCAGCTGCAG
ACCCAGCAGCTCCGCGTCCTCCAGCAGCCTGTCTTTCTGGCCACCGGCGCCGTCCAGATAGTCCAACCCC
ATCCCGGCGTCCAAGTAGGCTCACAGCTGGTGGACCAGAGGAAGGAAGGAAAACCAACTCCCCCCGCCCC
G

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

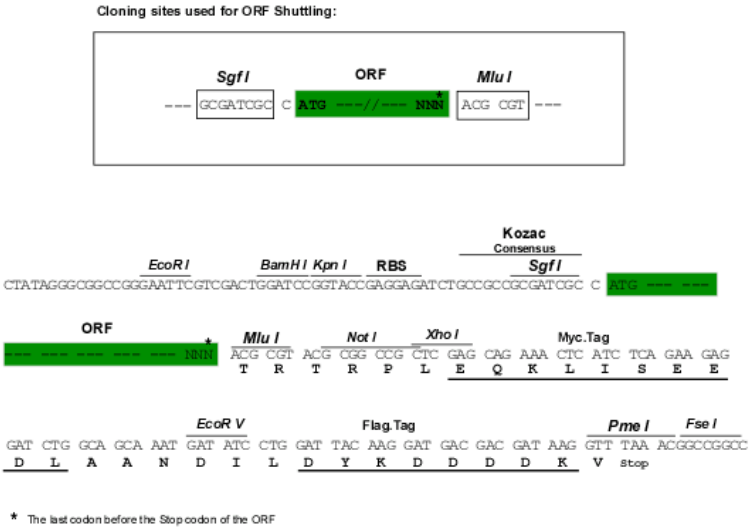
>RC227073 representing NM_001136234
Red=Cloning site Green=Tags(s)

MDRDLEQALDRAENIIEIAQQRPPRRRYSPRAGKTLQEKLYDIYVEECGKEPEDPQELRSNVNLLEKLVR
RESLPCLLVNLYPGNQGYSVMLQREDGSFAETIRLPYEERALLDYLDAEELPPALGDVLDKASVNIFHSG
CVIVEVRDYRQSSNMQPPGYQSRHILLRPTMQTLAHDVKMMTRDGQKWSQEDKLQLESQLILATAEPLCL
DPSVAVACTANRLLYNKQKMNTDPMKRCLQRYSWPSVKPQQEQSDCPPPPELRVSTSGQKEERKVGQPCE
LNIAKAGSCVDTWKGRPCDLAVPSEVDVEKLAKGYQSVTAADPQLPVWPAQEVEDPFGFALEAGCQAWDT
KPSIMQSFNDPLLCGKIRPRKKARQKSQKSPWQPFPDDHSACLRPGSETDAGRAVSQAQESVQSKVKGPG
KMSHSSSGPASVSQLSSWKTPEQPDPVWVQSSVSGKGEKHPPPRTQLPSSSGKISSGNSFPPQQAGSPLK
RPFSAAAAIAAAAAAAAAAAAAAAAAAPAPALAAAAAPALAAAAAPALAAAAAPAPAPAAAPAVAAAPAA
AASAAPSHSQKPSVPLIQASRPCPAAQPPTKFIKIAPAIQLRTGSTGLKAINVEGPVQGAQALGSSFKPV
QAPGSGAPAPAGISGSDLQSSGGPLPDARPGAVQASSPAPLQFFLNTPEGLRPLTLLQVPQGSAVLTGPQ
QQSHQLVSLQQLQQPTAAHPPQPGPQGSALGLSTQGQAFPAQQLLKVNPTRARSGLQPQPQPAVLSLLGS
AQVPQQGVQLPSVLRQQQPQPQPPKLQLQPQWQPKPRQEQPQSQQQQPQHIQLQTQQLRVLQQPQHIQLQ
TQQLRVLQQPVFLATGAVQIVQPHPGVQVGSQLVDQRKEGKPTPPAP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

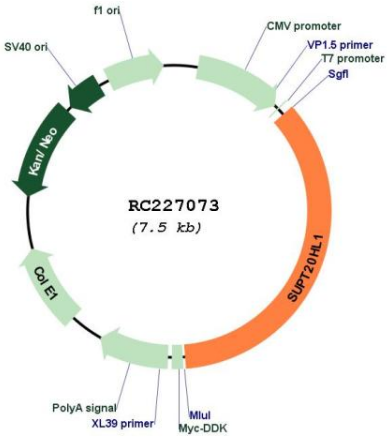


ACCN: NM_001136234

ORF Size: 2661 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001136234.1, NP_001129706.1
RefSeq Size:	5160 bp
RefSeq ORF:	2742 bp
Locus ID:	100130302
Cytogenetics:	Xp22.11
MW:	94.6 kDa

Product images:



Circular map for RC227073