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Product datasheet for RC206835

TASP1 (NM_017714) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TASP1 (NM_017714) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TASP1
Synonyms:	C20orf13; dJ585I14.2; SULEHS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC206835 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACCATGGAGAAGGGGATGAGTTCTGGAGAAGGGCTGCCTTCCAGATCATCTCAGGTTTCGGCTGGTA
AAATAACAGCCAAAGAGTTGGAAACAAAGCAGTCCTATAAAGAGAAACGAGGAGGCTTTGTGTTGGTGCA
TGCAGGTGCAGGTTATCATTCTGAATCCAAAGCCAAGGAGTATAAACATGTATGCAAACGAGCTTGTCAG
AAGGCAATTGAAAAGCTGCAGGCCGGTGCTCTTGCAACTGACGCAGTCACTGCAGCACTGGTGGAACTTG
AGGATTCTCCTTTTACAAATGCAGGAATGGGATCTAATCTAAATCTGTTAGGTGAAATTGAGTGTGATGC
CAGCATAATGGATGGAAAATCCTTAAATTTTGGAGCAGTTGGAGCACTGAGTGGAATCAAGAACCCAGTC
TCGGTTGCCAACAGACTCTTATGTGAAGGGCAGAAGGGCAAGCTCTCGGCTGGCAGAATTCCTCCCTGCT
TTTTAGTTGGAGAAGGAGCCTACAGATGGGCAGTAGATCATGGAATACCCTCTTGCCCTCCTAACATCAT
GACCACAAGATTCAGTTTAGCTGCATTTAAAAGAAACAAGAGGAAACTAGAGCTGGCAGAAAGGGTGGAC
ACAGATTTTATGCAACTAAAGAAAAGAAGACAATCAAGTGAGAAGGAAAATGACTCAGGCACTTTGGACA
CGGTAGGCGCTGTGGTTGTGGACCACGAAGGGAATGTTGCTGCTGCTGTCTCCAGTGGAGGCTTGGCCTT
GAAACATCCGGGGAGAGTTGGGCAGGCTGCTCTTTATGGATGTGGCTGCTGGGCTGAAAATACTGGAGCT
CATAACCCCTACTCCACAGCTGTGAGTACCTCAGGATGTGGAGAGCATCTTGTGCGCACCATACTGGCTA
GAGAATGTTCACATGCTTTACAAGCTGAGGATGCTCACCAAGCCCTGTTGGAGACTATGCAAAACAAGTT
TATCAGTTCACCTTTCCTTGCCAGTGAAGATGGCGTGCTTGGCGGAGTGATTGTCCTCCGTTCATGCAGA
TGTTCTGCCGAGCCTGACTCCTCCCAAAATAAGCAGACACTTCTAGTGGAATTTCTGTGGAGCCACACGA
CGGAGAGCATGTGTGTCGGATATATGTCAGCCCAGGATGGGAAAGCCAAGACTCACATTTCAAGACTTCC
TCCTGGTGCGGTGGCAGGACAGTCTGTGGCAATCGAAGGTGGGGTGTGCCGCCTGGAGAGCCCAGTGAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC206835 protein sequence
Red=Cloning site Green=Tags(s)

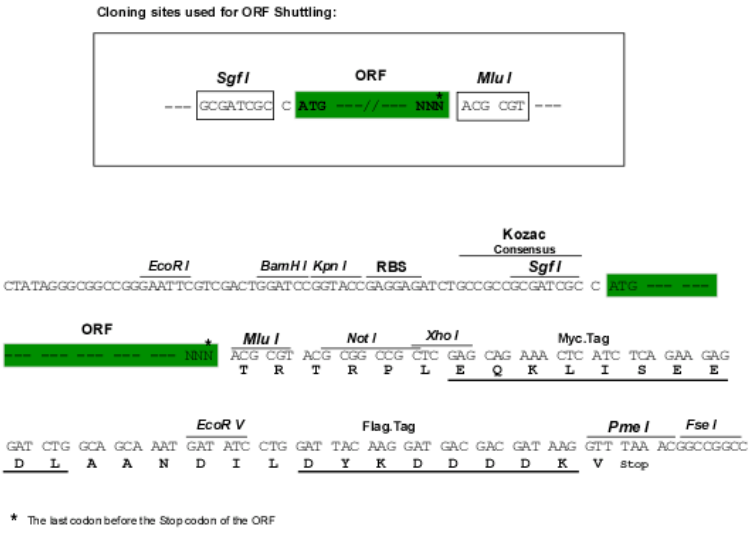
MTMEKGMSSGEGLPSRSSQVSAGKITAKELETKQSYKEKRGGFVLVHAGAGYHSESKAKEYKHVCKRACQ
KAIEKLQAGALATDAVTAALVELEDSPFTNAGMGSNLNLLGEIECDASIMDGKSLNFGAVGALSGIKNPV
SVANRLLCEGQKGKLSAGRIPPCFLVGEGAYRWAVDHGIPSCPPNIMTTRFSLAAFKRNKRKLELAERVD
TDFMQLKKRRQSSEKENDSGTLDTVGAVVVDHEGNVAAAVSSGGLALKHPGRVGQAALYGCGCWAENTGA
HNPYSTAVSTSGCGEHLVRTILARECSHALQAEDAHQALLETMQNKFISSPFLASEDGVLGGVIVLRSCR
CSAEPDSSQNKQTLLVEFLWSHTTESMCVGYMSAQDGKAKTHISRLPPGAVAGQSVAIEGGVCRLESPVN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6177_b06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_017714

ORF Size: 1260 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

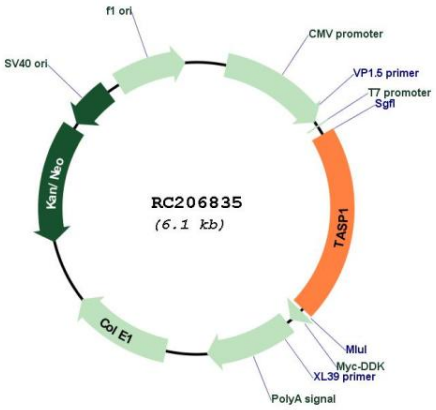
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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).

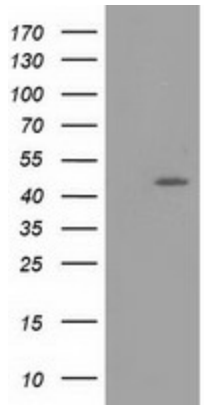
Reconstitution Method:
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid 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_017714.3
RefSeq Size: 2368 bp
RefSeq ORF: 1263 bp
Locus ID: 55617
UniProt ID: Q9H6P5
Cytogenetics: 20p12.1
Domains: Asparaginase_2
Protein Families: Protease
MW: 44.5 kDa
Gene Summary: This gene encodes an endopeptidase that cleaves specific substrates following aspartate residues. The encoded protein undergoes posttranslational autoproteolytic processing to generate alpha and beta subunits, which reassemble into the active alpha2-beta2 heterotetramer. It is required to cleave MLL, a protein required for the maintenance of HOX gene expression, and TFIIA, a basal transcription factor. Alternatively spliced transcript variants have been described, but their biological validity has not been determined. [provided by RefSeq, Jul 2008]

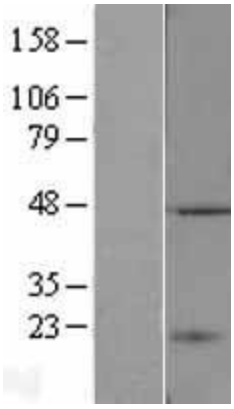
Product images:



Circular map for RC206835



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY TASP1 (Cat# RC206835, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-TASP1(Cat# [TA502257]). Positive lysates [LY402609] (100ug) and [LC402609] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY402609]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206835 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).