OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC118041

DAP12 (TYROBP) (NM_003332) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DAP12 (TYROBP) (NM_003332) Human Untagged Clone
Tag:	Tag Free
Symbol:	DAP12
Synonyms:	DAP12; KARAP; PLOSL; PLOSL1
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC118041 sequence for NM_003332 edited (data generated by NextGen Sequencing)

```
ATGGGGGGACTTGAACCCTGCAGCAGGCTCCTGCTCCTGCCTCTCCTGCTGGCTGTAAGT
GGTCTCCGTCCTGTCCAGGCCCAGGCCCAGAGCGATTGCAGTTGCTCTACGGTGAGCCCG
GGCGTGCTGGCAGGGATCGTGATGGGAGACCTGGTGCTGACAGTGCTCATTGCCCTGGCC
GTGTACTTCCTGGGCCGGCTGGTCCCTCGGGGGCGAGGGGCTGCGGAGGCAGCGACCCGG
AAACAGCGTATCACTGAGACCGAGTCGCCTTATCAGGAGCTCCAGGGTCAGAGGTCGGAT
GTCTACAGCGACCTCAACACACAGAGGCCGTATTACAAATGA

Clone variation with respect to NM_003332.3
```

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_003332 unedited

```
CCCACCGGCCCTTACACTGTGGTGTCCAGCAGCATCCGGCTTCATGGGGGGACTTGAACC
CTGCAGCAGGCTCCTGCTCCTGCCTCTCCTGCTGGCTGTAAGTGGTCTCCGTCCTGTCCA
GGCCCAGGCCCAGAGCGATTGCAGTTGCTCTACGGTGAGCCCGGGCGTGCTGGCAGGGAT
CGTGATGGGAGACCTGGTGCTGACAGTGCTCATTGCCCTGGCCGTGTACTTCCTGGGCCG
GCTGGTCCCTCGGGGGCGAGGGGCTGCGGAGGCAGCGACCCGGAAACAGCGTATCACTGA
GACCGAGTCGCCTTATCAGGAGCTCCAGGGTCAGAGGTCGGATGTCTACAGCGACCTCAA
CACACAGAGGCCGTATTACAAATGAGCCCGAATCATGACAGTCAGCAACATGATACCTGG
ATCCAGCCATTCCTGAAGCCCACCCTGCACCTCATTCCAACTCCTACCGCGATACAGACC
CACAGAGTGCCATCCCTGAGAGACCAGACCGCTCCCCAATACTCTCCTAAAATAAACATG
AAGC
```

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3' Read Nucleotide Sequence:

```
>OriGene 3' read for NM_003332 unedited
GGGGGGGNNNGGGGGGNNNNNNNNNNTTTTNNNNNNNAANTTTTTACTTAGNACCGNCGN
CCGCATACTANGATCGNGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTGGGCCCCATGTTTATTTTAAGAAAAAATTGGGGAGCCGGCTG
GGCTCTCAAGGGAAGGCCCTTTTTGGGGCTTTATCCCGGGAGGAATTGGAAAAAAGGGCC
GGGGGGGCTTCAAGAAAGGGTGGAACCCAGAATCATGTTGCTGACCGGCAAAAATCCGGC
CCATTTTTAAAACCGCCCCTTTGGGTTGAGGGCCCTTTAAACATCCCACCCTTGACCCTG
GAACCCCTGAAAAAGGGAACCGGGCTCAAAGAAACCCTTTTTCCGGGGCCCTTGCTCCCC
AACCCCTTCCCCCCCAGAGGAACAACCCGCCCCAAAAAAACCCCGCCCAGGCAAAGAACA
CTTTTAACACCAAGGTTTCCATTAAAAACCCTGGCAAAACCCCCGGGGTTACCCTAAAAC
AACTGCAATCCCTTTTGGCCCGGGCCCGGACAGGACCGAAACCCCTTTCCCCCCCCCGGA
AAAGCCGGAACCCGAGCCCTCTTCAAGGGTCAAAACCCCCCCTGAAACCCGAAGCTGCTG
GACACCCCAATTTAAAGGCCCGTGGGAATTGGCCTTGTGCCCAATTCCCGGCCCGCCTAT
AATGAGGCCTATTACAAAATTCTTACGGGTCACTTAACGAACTCTGCTTATATAAAACTT
CCACCGTGAACGCCTTACCGCCATTTTGGTAACGGGGCGGGGGTATTACCACATTTTGGA
AAGTCCCCTGATTTTGGTGGCCAAACAAATTCCCATTGGCGTAAAGGGGGGGAGACCTTG
GAATCCCCCGGAGTAAAACGCTATTCCCCCCCTTGGGGG
```

Restriction Sites: NotI-NotI

ACCN: NM_003332

Insert Size: 630 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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

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_003332.2, NP_003323.1

RefSeq Size: 583 bp

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RefSeq ORF:	342 bp
Locus ID:	7305
UniProt ID:	O43914
Cytogenetics:	19q13.12
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Natural killer cell mediated cytotoxicity
Gene Summary:	This gene encodes a transmembrane signaling polypeptide which contains an immunoreceptor tyrosine-based activation motif (ITAM) in its cytoplasmic domain. The encoded protein may associate with the killer-cell inhibitory receptor (KIR) family of membrane glycoproteins and may act as an activating signal transduction element. This protein may bind zeta-chain (TCR) associated protein kinase 70kDa (ZAP-70) and spleen tyrosine kinase (SYK) and play a role in signal transduction, bone modeling, brain myelination, and inflammation. Mutations within this gene have been associated with polycystic lipomembranous osteodysplasia with sclerosing leukoencephalopathy (PLOSL), also known as Nasu-Hakola disease. Its putative receptor, triggering receptor expressed on myeloid cells 2 (TREM2), also causes PLOSL. Multiple alternative transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq, Mar 2010] Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).

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