

## Product datasheet for MR205760

### Aspn (NM\_025711) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Aspn (NM_025711) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Aspn
Synonyms:	4631401G09Rik; AA986886; PL; Plap1; SL; Slrr1c
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205760 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAGGAGTATGTGATGCTACTGCTTTTGGCTGTGTGCTCTGCCAAACCCTTCTTTAGCCCTTCCCACA  
CAGCACTGAAGAATATGATGTTGAAGGATATGGAAGACACAGATGATGACGATAACGATGATGACGACAA  
CTCTCTTTTCCAACGAAAGAGCCAGTGAACCCTTTTCCCTTCGATTTGTTTCCAACATGTCCATTT  
GGGTGCCAATGTTACTCTCGAGTTGTTCACTGCTCTGATCTAGGTCTGACATCGGTTCCAAACAACATTC  
CATTTGATACTCGAATGGTTGACCTTCAAATAATAAAATCAAGGAAATTAAGAAAATGACTTTAAAGG  
ACTCACTTCACTTATGCTCTGATTCTGAACAACAACAAGCTAACAAAGATTCACCCAAAACCTTCTA  
ACCACAAAGAAATGAGAAGGCTATATTTATCCCAACAACCACTAAGTGAATTCCACTTAACTTTCCCA  
AATCATTAGCAGAATCAGAATTCATGATAATAAAGTTAAGAAGATACAAAAGGACACGTTCAAGGGAAAT  
GAATGCTTTACATGTTTTGGAAATGAGTGCAAACCCTCTTGAGAACAACGGGATAGAACCAGGGCATT  
GAAGGGGTGACAGTATCCATATCAGGATCGCTGAAGCAAACTAACCTCAATTCAAAAGGCTACCAC  
CACTTTGCTGGAGCTTCATTTAGATTTAATAAAATTTCAACGGTGAAGTGAAGATCTTAAACGGTA  
CAGGGAACCTGCAAAGGCTGGGTCTTGGAAACAACAGAATCACAGATATTGAAAATGGAACCTTTGCTAAT  
ATACCAGTGTGAGAGATACACTTGGAAACAATAAACTAAAAAAATCCCTTCAGGATTACAGGAGT  
TGAATACTCCAGATAATCTTCTTCAATTAATTAATTGCAAAAGTGGGAGTGAATGACTTCTGTCC  
AACAGTGCCAAAGATGAAGAAATCTTTATACAGTGCAATAAGTTTATTCAACAACCAATGAAGTACTGG  
GAAATACAACCTGCAACATTTCTGTTGTTCTTGGCAGAATGAGTGTTACGCTTGGGAATGTTGGAAAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTAA



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**Protein Sequence:** >MR205760 protein sequence  
Red=Cloning site Green=Tags(s)

MKEYVMLLLLAVCSAKPFFSPSHTALKNMMLKDMEDTDDDDNDDDDNSLFPTKEPVNPPFFDLFPTCPF  
 GCQCYSRVVHCSDLGLTSVPNNIPFDMVDLQNNKIKEIKENDFKGLTSLYALILNKKLTKIHPKTF  
 TTKKLRRLYL SHNQLSEIPLNLPKSLAELRIHDNKVKIKQKDTFKGMNALHVLEMSANPLENNGIEPGAF  
 EGVTVFHIRIAEAKLTSIPKGLPPTLLELHLDNFNKISTVELEDLKRYRELQRLGLGNNRITDIENGT  
 FANIPRVREIHLEHNKLLKIPSGLQELKYLQIIFLHYNSIAKVGVNDFCPTVPKMKKSLYSALS  
 FNNPMKYWEIQPATFRCVLGRMSVQLGNVVK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_025711

**ORF Size:** 1122 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\\_025711.3](#), [NP\\_079987.2](#)

**RefSeq Size:** 2362 bp

**RefSeq ORF:** 1122 bp

**Locus ID:** 66695

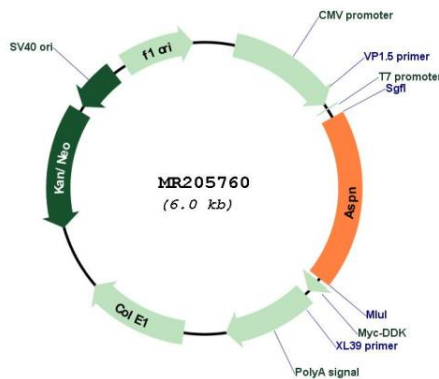
**UniProt ID:** [Q99MQ4](#)

**Cytogenetics:** 13 A5

**MW:** 42.6 kDa

**Gene Summary:** This gene encodes a member of the small leucine-rich proteoglycan family. The encoded protein is an extracellular matrix protein that modulates the transforming growth factor-beta signaling pathway, regulating cartilage matrix gene expression and cartilage formation. The protein plays a role in the pathology of osteoarthritis. Alternative splicing results in multiple transcript variants.[provided by RefSeq, Feb 2010]

**Product images:**



Circular map for MR205760