

## Product datasheet for MR224923

### Aspn (NM\_001172481) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Aspn (NM\_001172481) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Aspn  
**Synonyms:** 4631401G09Rik; AA986886; PL; Plap1; SL; Slrr1c  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >MR224923 representing NM\_001172481  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAAGGAGTATGTGATGCTACTGCTTTTGGCTGTGTGCTCTGCCAACCCCTTCTTAGCCCTTCCCACA  
 CAGCACTGAAGAATATGATGTTGAAGGATATGGAAGACACAGATGATGACGATAACGATGATGACGACAA  
 CTCTCTTTTTCCAACGAAAGAGCCAGTGAACCCTTTTTCCCTTCGATTTGTTTCCAACATGTCCATTT  
 GGGTGCCAATGTTACTCTCGAGTTGTTCACTGCTGCTGATCTAGGTCTGACATCGGTTCCAACAACATTC  
 CATTGATACTCGAATGTTGACCTTCAAATAATAAAATCAAGGAAATTAAGAAAATGACTTTAAAGG  
 ACTCACTTCACTTTATGCTCTGATTCTGAACAACAAGCTAACAAAGATTACCCAAAAACCTTTCTA  
 ACCACAAAGAAATGAGAAGGCTATATTTATCCCAACAACCAACTAAGTGAATTCACCTTAATCTTCCCA  
 AATCATTAGCAGAATCAGAATTCATGATAATAAAGTTAAGAAGATACAAAAGGACACGTTCAAGGGAA  
 TGAATGCTTTACATGTTTTGGAATGAGTGCAAACCCTCTTGAGAACAACGGGATAGAACCAGGGCATT  
 GAAGGGTGACAGTATTCATATCAGGATCGTGAAGCAAACTAACCTCAATTCAAAAGGCTACCAC  
 CAACCTTGCTGGAGCTTCATTTAGATTTAATAAAATTTCAACGGTGAACCTTGAAGATCTTAAACGGTA  
 CAGGGAAGTCAAAGGCTGGTCTTGAAACAACAAGAAATCAAGATATTGAAAATGGAACCTTTTGCTAAT  
 ATACCACGTGTGAGAGAGATACACTGGAACACAATAAACTAAAAAAATCCCTTCAGGATTACAGGAGT  
 TGAAATACCTCCAGATAATCTTCTTCAATATAATTCAATTGCAAAAGTGGGAGTGAATGACTTCTGTCC  
 AACAGTGCCAAAGATGAAGAAATCTTTATACAGTGCAATAAGTTTATTCAACAACCCAAATGAAGTACTGG  
 GAAATACAACCTGCAACATTTCTGTTGTTCTTGGCAGAATGAGTGTTCAGCTTGGGAATGTTGGAAAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR224923 representing NM\_001172481  
 Red=Cloning site Green=Tags(s)

MKEYVMLLLLAVCSAKPFFSPSHTALKNMMLKDMEDTDDDDNDDDDNSLFPTKEPVNPPFFDLFPTCPF  
 GCQCYSRVVHCSDLGLTSVPNNIPFDMVDLQNNKIKEIKENDFKGLTSLYALILNKKLTKIHPKTF  
 TTKKLRLRYLSHNQLSEIPLNLPKSLAELRIHDNKVKKIQKDTFKGMNALHVLMSANPLENNGIEPGAF  
 EGVTVFHIRIAEAKLTSIPKGLPPTLLELHLDNFNKISTVELEDLKRYRELQRLGLGNNRITDIENGTFAN  
 IPRVREIHLEHNKLLKIPSGLQELKYLQIIFLHYNSIAKVGVNDFCPTVPKMKKSLYSALSIFNNPMKYW  
 EIQPATFRCVLGRMSVQLGNVGK

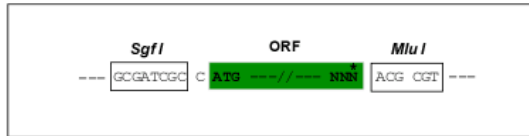
**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Restriction Sites:**

SgfI-MluI

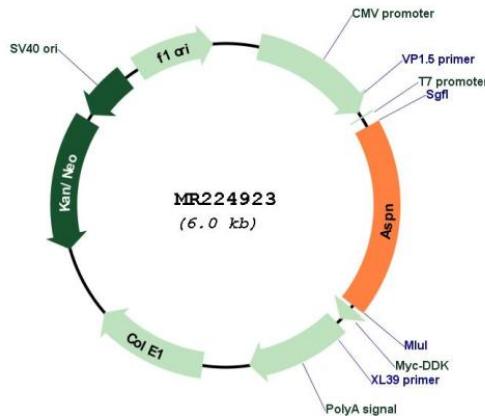
**Cloning Scheme:**

Cloning sites used for ORF Shutting:



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

**Plasmid Map:**



**ACCN:** NM\_001172481

<b>ORF Size:</b>	1119 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001172481.1</a> , <a href="#">NP_001165952.1</a>
<b>RefSeq Size:</b>	2345 bp
<b>RefSeq ORF:</b>	1122 bp
<b>Locus ID:</b>	66695
<b>UniProt ID:</b>	<a href="#">Q99MQ4</a>
<b>Cytogenetics:</b>	13 A5
<b>MW:</b>	43 kDa
<b>Gene Summary:</b>	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]