

## Product datasheet for **RG231088**

### Asporin (ASPEN) (NM\_001193335) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Asporin (ASPEN) (NM_001193335) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ASPEN
Synonyms:	OS3; PLAP-1; PLAP1; SLRR1C
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG231088 representing NM_001193335 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAGGAGTATGTGCTCCTATTATTCCTGGCTTTGTGCTCTGCCAAACCCTTCTTTAGCCCTTCACACA  
TCGCACTGAAGAATATGATGCTGAAGGATATGGAAGACACAGATGATGATGATGATGATGATGATGATGATGA  
TGATGATGATGAGGACAACCTCTTTTTCCAACAAGAGAGCCAAGAAGCCATTTTTTTCATTTGATCTG  
TTTCCAATGTGTCCATTTGGATGTCAGTGCTATTACAGAGTTGTACATTGCTCAGATTTAGGTTTACCT  
CAGTCCCAACCAACATTCATTTGATACTCGAATGCTTGATCTTCAAACAATAAAATTAAGGAAATCAA  
AGAAAATGATTTAAAGGACTCACTTCACCTTTATGGTCTGATCCTGAACAACAACAGCTAACGAAGATT  
CACCCAAAAGCCTTTCTAACCACAAAGAAGTTGCGAAGGCTGTATCTGTCCCACAATCAACTAAGTGAAA  
TACCACCTAATCTTCCAAATCATTAGCAGAAGCTCAGAATTCATGAAAATAAAGTTAAGAAAATACAAA  
GGACACATTCAAAGGAATGAATGCTTTACACGTTTTGAAATGAGTGCAAACCCTCTTGATAATAATGGG  
ATAGAGCCAGGGCATTGAAGGGTGACGGTGTCCATATCAGAATTGCAGAAGCAAACCTGACCTCAG  
TTCCTAAAGATAATCTTCCTTCATTC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG231088 representing NM\_001193335  
Red=Cloning site Green=Tags(s)

MKEYVLLLFLALCSAKPFFSPSHIALKNMMLKDMEDTDDDDDDDDDDDDDDNSLFPTREPRSHFFPFDL  
 FPMCPFGCQCYSRVVHCSDLGLTSVPTNIPFDRMLDLQNNKIKEIKENDFKGLTSLYGLILNKKLTKI  
 HPKAFLTTKLRRLYL SHNQLSEIPLNLPKSLAELRIHENKVKKI QKDTFKGMNALHVLEMSANPLDNNG  
 IEPGAFEGVTVFHIRIAEAKLTSVPKDNLPSF

TRTRPLE - GFP Tag - V

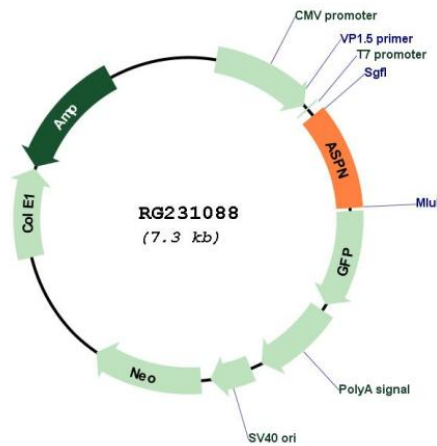
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**



**ACCN:** NM\_001193335

**ORF Size:** 726 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_001193335.2</a>
<b>RefSeq Size:</b>	2308 bp
<b>RefSeq ORF:</b>	729 bp
<b>Locus ID:</b>	54829
<b>UniProt ID:</b>	<a href="#">Q9BXN1</a>
<b>Cytogenetics:</b>	9q22.31
<b>Protein Families:</b>	Secreted Protein
<b>Gene Summary:</b>	This gene encodes a cartilage extracellular protein that is member of the small leucine-rich proteoglycan family. The encoded protein may regulate chondrogenesis by inhibiting transforming growth factor-beta 1-induced gene expression in cartilage. This protein also binds collagen and calcium and may induce collagen mineralization. Polymorphisms in the aspartic acid repeat region of this gene are associated with a susceptibility to osteoarthritis, and also with intervertebral disc disease. Alternative splicing of this gene results in multiple transcript variants.[provided by RefSeq, Jul 2014]