

## Product datasheet for **MG204432**

### Aspa (NM\_023113) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Aspa (NM\_023113) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Aspa  
**Synonyms:** Acy; Acy-; Acy-2; Acy2; nu; nur7  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG204432 representing NM\_023113  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACCTCTTGTGTTGCTAAAGAACCTATTAAGAAGATTGCCATCTTTGGAGGGACTCATGGAAATGAAC  
TGACCGGAGTGTTTCTAGTTACTCACTGGCTAAGGAATGGCACTGAAGTTCACAGAGCAGGGCTGGACGT  
GAAGCCATTCAATACCAATCCAAGGGCGGTGGAGAAGTGCACCAGATACATTGACTGTGACCTGAATCGT  
GTTTTTGACCTTGAAAATCTTAGCAAAGAGATGTCTGAAGACTTGCCATATGAAGTGAGAAGGGCTCAAG  
AAATAAATCATTATTTGGTCCAAAAAATAGTGATGATGCCTATGACATTGTTTTGACCTCACAAACAC  
CACTTCTAACATGGGTTGCACTCTTATTCTTGAGGATTCCAGGAATGACTTTTTAATTCAGATGTTTCAC  
TATATTAAGACTTGATGGCTCCATTACCTGCTCTGTTTATCTCATTGAGCATCCTTCACTCAAATATG  
CAACCACTCGTTCCATTGCCAAGTATCCTGTTGGTATAGAAGTTGGTCTCAGCCTCACGGTGTCTTAG  
AGCTGATATTTAGACCAAATGAGAAAAATGATAAAACATGCTCTTGATTTTATACAGCATTTCAATGAA  
GGAAAAGAATTTCTCCCTGTTCTATTGACGTCTATAAAATATGGAGAAAGTTGATTATCCAAGGAATG  
AAAGTGGAGACATGGCTGCTGTTATTCATCCTAATCTGCAGGATCAAGACTGGAAACCATTGCACCCTGG  
AGATCCTGTGTTGTCTCTTTGATGGAAAAGTTATCCACTGGTGGAGACTGTACCGTGTACCCAGTG  
TTTGTGAATGAAGCTGCATATTATGAAAAAAGAAGCATTGCAAAGACAACAAAATAACTACACTCAGCG  
CAAAAAGCATCCGCTCCACTTTGCAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204432 representing NM\_023113  
 Red=Cloning site Green=Tags(s)

MTSCVAKEPIKKIAIFGGTHGNELTGVFLVTHWLRNGTEVHRAGLDVKPFITNPRAVEKCTRYIDCDLNR  
 VFDLENLSKEMSEDLPEYVRRAQEINHILFGPKNSDDAYDIVFDLHNTTSNMGCTLI LEDSRNDFLIQMFH  
 YIKTCMAPLPCSVYLIEHPSLKYATTRSIAKYVGVIEVGPQPHGVLRADILDQMRMKIKHALDFIQHFNE  
 GKKEFPCCSIDVYKIMEKVDYPRNESGDMAAVIHPNLQDQDWKPLHPGDPVVFVSLDGKVIPLGGDCTVYYPV  
 FVNEAAYEKKEAFAKTTKLTLSAKSIRSTLH

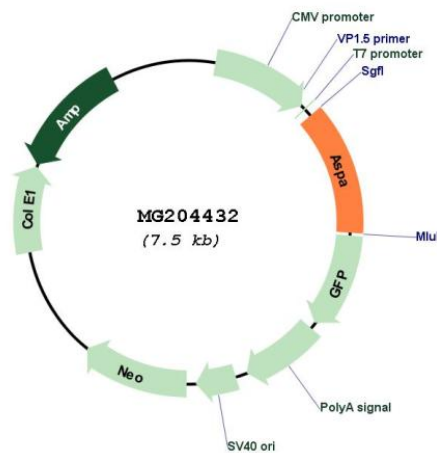
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_023113

ORF Size: 936 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_023113.3</a> , <a href="#">NP_075602.2</a>
<b>RefSeq Size:</b>	1535 bp
<b>RefSeq ORF:</b>	939 bp
<b>Locus ID:</b>	11484
<b>UniProt ID:</b>	<a href="#">Q8R3P0</a>
<b>Cytogenetics:</b>	11 B4
<b>Gene Summary:</b>	This gene encodes an enzyme that deacetylates N-acetyl-L-aspartic acid (NAA) in the brain to yield acetate and L-aspartate. In humans, alterations in neuronal NAA concentration are associated with many neurodegenerative diseases (decrease associated with epilepsy, multiple sclerosis, myotrophic lateral sclerosis, and Alzheimer's disease; increase associated with Canavan disease). In mouse, mutations in this gene, which cause accumulation of NAA, result in demyelination and spongy degeneration in the CNS and serve as a pathophysiological model for Canavan disease. [provided by RefSeq, Dec 2012]