

**Supplemental File 2. Nucleotide sequence of cDNA clone L29 (2A), Translation of sequence obtained for L29 (2B), and Blast analysis of translated sequence for L29 against predicted MCMV M116 protein sequence (accession # YP\_214111) (2C).**

**Supplemental File 2A. Nucleotide sequence of cDNA clone L29 (sequence from 5' end—Vector sequence is bold; splice junction in red and underlined)**

>clone L29

NNNNNNNNNNNTAGCTGGTACCGAGCTGGATCCACTAGTCCAGTGTGGGAATTCCGCGGGTTAAAC~~GAGAACGGCAACGAG  
ACGACGGTCGCCGCCGCTCCGCCGCGCACAGCGCCAGCAGCCGCTCTGCCTCCGAGCTAGCACTCGGGCGAGACGCCGCTGCGC  
CGCCGCCGCCGCTGCCACCACCGCCGCTAAAAAACGGGTTCGACCATACTATCTGAGCGAGCGACGGACGAAGATCTAACCCCCACCGACG  
GGACGAAGATCTTAATCTACGCCCTTCGTATCGGACTTCGGATATCTCCTCAGACGACTCGGATAGCGAACGAACTCGTCGTCAGCGAAC  
GTCTAACTCGTCCTTACCAACCGGGATCGGAGACCGAACCCCTTCATCATCCTCATATTCTCATCTCATCTCATCCTCTCCATCCTCCGAC  
TCAGAGGATGAACCATCATCATCATCATCGTCATCTACAGCTCGGACGGCGCTTCATCGGATTGGAGGCGCCATCTGGATTCTGGATCG  
AATCCATAGGCTGACGTCGCCAAATCGGAATCGGAGTCCTCAGACTCAGAAAAAGATCAAGAGAAGATAAGAAAACATGACACCCGCATCT  
ACTCGCGCAGTCGCCCAACAGAGCAGCACAGCAGCCCCCGCGAACACAGAACCGCCGAGACGCGTCACGGAGCTGTCGAAGA  
TGTTATCCGCCCTCGATCGGACAAGCGACGAAGCTCGCGACGCTGCAAGACTACTCCTCAGCAGGT~  
T~  
CAACACAGAGTGCAGACAGGGTCC  
AGACGGAAAGCGGTACGCCGGTCTACAGAAAGAGACGCCGAAGAAATCGACGTCCTATCGACCTGAAGAGAGACGCCGACAGACAGAGA  
ACTGCAGCAGAGCTGGAGACGGGACGATCACTGACCGTCGCCGGTTCCGAGCACGGTCACGGCNGTCCGCCGAGCGACATCCGTACCTG  
ACNNCACTAACGACAGCCCCGCCAGCACCCACATCAGACGTCGACAACAACACACANCATCACCAGCCATCACCCACAGAGACCGCTACCAC  
AGCNGTANNTCGANAGNATNTNNNGANGTNACTCNCTCNCAGCAGNANTAGNACNNATCTCNCCNTNCCTGCAANNCCAGACNN  
NACTGNNGNCNCAGAANGCTACTAATAANNNNANGANNN  
NCNTCTGGNNNNNNNNCCNNCCNN  
NNNGNGAN

**Supplemental File 2B. Translation of sequence obtained for L29.** The italicized sequence diverges from published sequence because of change in open reading frame and introduction of stop codon caused by splicing (altered residues due to reading frame shift in red). The 5' end of the transcript has not been unambiguously determined. While current genome annotation indicates M116 is predicted to be 645 AA, These findings provide evidence of a novel truncated protein product that diverges from the predicted protein sequence at residue 350 and introduction of a new stop codon at position 401.

>clone L29: 16 to 984: Frame 1 323 aa

SLVPSSDPLVQCGGIPAGLNENGNETTVAAPAPPAAPAPAAASASA STRAETPAVAAAAAATTAKKRVSTIL  
SRASDGTKILPTDGTKILYASSSSDSSDISSDDSETNSSSEPSNSLPPGSETEPSSSSSYSSSSSSSS  
PSSSDSEDEPSSSSSSSTSSDGASSDSEAPSSDSGSESIGSTSPKSESESSDSEKDQEKNKTSTPASTRAS  
SPQPGAAPAAPANTEPAR DASTELSSKMLSASIVDKPTKLADA AKTPQQV**NTECDNGPDGKR SRRSTERDA**  
**EEIDVPIDLESGSTDQRTAAELGDGDDHSTOP**

**Supplemental File 2C. Blast of our translated sequence for L29 against MCMV M116 protein sequence (accession # YP\_214111 ).** Note that the spliced clones in the cDNA library are also truncated at the 5' end relative to current gene annotation. While current genome annotation indicates M116 is predicted to be 645 AA, These findings provide evidence of a novel product predicted to be approx. 401 AA.

GENE ID: 3293866 MuHV1\_gp103 | U1116 [Murid herpesvirus 1]  
(10 or fewer PubMed links)

Score = 160 bits (405), Expect = 3e-48, Method: Compositional matrix adjust.  
Identities = 252/255 (99%), Positives = 253/255 (99%), Gaps = 2/255 (1%)

Query	21	ENGNETTVAAPAPPAAPAPAAASASAASAASTRAETPAVAAAAAATTAAKKRVSTILSRASDG +NGNETTVAAPAPPAAPAPAAASASAASAASTRAETPAVAAAAAATTAAKKRVSTILSRASDG	80
Sbjct	98	KNGNETTVAAPAPPAAPAPAAASASAASAASTRAETPAVAAAAAATTAAKKRVSTILSRASDG	157
Query	81	TKILTPTDGTKILIYASSSDSSDISSDDSETNSSSEPSNSSLPPGSETEPSSSSY TKILTPTDGTKILIYASSSDSSDISSDDSETNSSSEPSNSSLPPGSETEPSSSSY	140
Sbjct	158	TKILTPTDGTKILIYASSSDSSDISSDDSETNSSSEPSNSSLPPGSETEPSSSSY	217
Query	141	SSSSSSSSPSSSDSEDEPSSSSSSSTSSDGASSDSEAPSSDGSSESIGSTSPKSESES SSSSSSSSPSSSDSEDEPSSSSSSSTSSDGASSDSEAPSSDGSSESIGSTSPKSESES	200
Sbjct	218	SSSSSSSSPSSSDSEDEPSSSSSSSTSSDGASSDSEAPSSDGSSESIGSTSPKSESES	277
Query	201	SDSEKDQEKNKKTSTPASTRASSPQPGAAPAAPANTEPARDASTELSSKMETLSASIVDK SDSEKDQEKNKKTSTPASTRASSPQPGAAPAAPANTEPARDASTELSSKM LSASIVDK	260
Sbjct	278	SDSEKDQEKNKKTSTPASTRASSPQPGAAPAAPANTEPARDASTELSSKM--LSASIVDK	335
Query	261	PTKLADAAKTTPQQV 275	
Sbjct	336	PTKLADAAKTTPQQV 350	