

The Missing Link in Coenzyme A Biosynthesis: PanM (formerly YhhK), a Yeast GCN5 Acetyltransferase Homolog Triggers Aspartate Decarboxylase (PanD) Maturation in *Salmonella enterica*

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Running title: PanM triggers pro-PanD cleavage in *Salmonella*

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Table S1: Strains and plasmids used in this study.

Strain ^a or plasmid	Genotype	Reference or source
<i>Strains</i>		
DM10310	<i>ara-9</i>	(Boyd <i>et al.</i> , 2008)
JE12555	<i>ara-9 panM751::kan⁺</i>	This work
DM380	<i>panD634::MudJ^b</i>	D. Downs
JE13233	<i>ara-9 panD634::MudJ</i>	This work
JE13234	<i>ara-9 panD634::MudJ</i> <i>ΔpanM752</i>	This work
AH109	<i>Saccharomyces cerevisiae</i> <i>MATa trp1-901 leu2-3 ura3-52</i> <i>his3-200 gal4Δ gal80Δ</i> <i>LYS2::GAL1_{UAS}-GAL1_{TATA}-HIS3</i> <i>URA3::MEL1_{UAS}-MEL1_{TATA}-lacZ</i>	Clontech
C41 (DE3)	<i>Escherichia coli</i> F ⁻ <i>ompT hsdSB</i> (<i>rB⁻ mB⁻</i>) <i>gal dcm</i>	Lucigen
SD300A	<i>aadA::araC_{pBADT7-1} his</i>	(McKinney <i>et al.</i> , 2002)
JE13153	<i>aadA::araC_{pBADT7-1} his</i> <i>panM751::kan⁺</i>	This work
<i>Plasmids</i>		
pBAD24	Expression vector, <i>bla⁺</i>	(Guzman <i>et al.</i> , 1995)
pPAN65	<i>panM⁺</i> cloned into pBAD24	This work
pPAN7	<i>panD</i> cloned into pBAD24	This work
pPAN14	<i>panD</i> from <i>C. glutamicum</i> cloned into pBAD24	This work
pGBKT7	Matchmaker™ bait plasmid, <i>kan⁺</i>	Clontech
pGADT7	Matchmaker™ prey plasmid, <i>bla⁺</i>	Clontech
pPAN66	<i>panM⁺</i> cloned into pGADT7	This work
pPAN12	<i>panD⁺</i> cloned into pGADT7	This work
pPAN67	<i>panM⁺</i> cloned into pGBKT7	This work
pPAN15	<i>panD⁺</i> cloned into pGBKT7	This work
pKLD66	Expression vector, <i>malE⁺ bla⁺</i>	(Rocco <i>et al.</i> , 2008)
pPAN68	<i>panM⁺</i> cloned into pKLD66	This work
pT7-7	Expression vector, <i>bla⁺</i>	(Tabor & Richardson, 1985)
pPAN9	<i>panD⁺</i> cloned into pT7-7	This work

^aAll strains are derivatives of *Salmonella enterica* LT2, unless otherwise stated

^bMudJ is an abbreviation of MudI1734 (Castilho *et al.*, 1984)

Table S2: Primers used in this study.

Primer Name	Sequence	Purpose ^a
panM Wanner Se F	GTTTTTTTGGGCTAGCAGGAGGAATTCACC ATGAAGCTGACCATTCTTCGT	Deletion of <i>panM</i>
panM Wanner Se R	GTAGGCCGGATAAGCGTCAGCGCCATCCG GCTTTCTTTTACATATGAATATCCTCCTTAG	Deletion of <i>panM</i>
panM Flank F	AACGGCATATTAAGCGGAA	Verify <i>panM</i> deletion
panM Flank R	TGATTTTCTGGCGCCTTT	Verify <i>panM</i> deletion
panM for pBAD24 5'EcoRI	GTTTTTTTGGGCTAGCAGGAGGAATTCACC ATGAAGCTGACCATTCTTCGT	Clone <i>panM</i> into pBAD24
panM for pBAD24 3'PstI	AAGCTTGCATGCCTGCAGTTAGCGCTTCTC CCAGCC	Clone <i>panM</i> into pBAD24
panD for pBAD24 F	GAGGAATTCACCATGGTACCATGATTCGCA CCATGCTG	Clone <i>panD</i> into pBAD24
panD for pBAD24 R	GCAGGTCGACTCTAGATCAGGCAACCTGT ACCGGAAT	Clone <i>panD</i> into pBAD24
Cg panD for pBAD24 F	CTAGCAAGAGGAATTCATGCTGCGCACCAT CCTC	Clone <i>C. glutamicum</i> <i>panD</i> into pBAD24
Cg panD for pBAD24 R	CCAAGCTTGCATGCCTGCAGCTAAATGCTT CTCGACGTCAA	Clone <i>C. glutamicum</i> <i>panD</i> into pBAD24
pBAD Seq F	CTGTTTCTCCATACCCGTT	Sequencing inserts in pBAD24
pBAD Seq R2	GGCTGAAAATCTTCTCT	Sequencing inserts in pBAD24
panM for pGADT7 F	CAGATTACGCTCATATGATGAAGCTGACCA TTCTTCGT	Clone <i>panM</i> into bait plasmid
panM for pGADT7 R	CGAGCTCGATGGATCCTTAGCGCTTCTCCC AGCC	Clone <i>panM</i> into bait plasmid
panD for pGADT7 F	CAGATTACGCTCATATGATGATTCGCACCA TGCTG	Clone <i>panD</i> into bait plasmid
panD for pGADT7 R	CGAGCTCGATGGATCCTCAGGCAACCTGT ACCGGAAT	Clone <i>panD</i> into bait plasmid
panM for pGBKT7 F	AGGAGGACCTGCATATGATGAAGCTGACC ATTCTTCGT	Clone <i>panM</i> into prey plasmid
panM for pGBKT7 R	GCAGGTCGACGGATCCTTAGCGCTTCTCC CAGCC	Clone <i>panM</i> into prey plasmid
panD for pGBKT7 F	AGGAGGACCTGCATATGATGATTCGCACCA TGCTG	Clone <i>panD</i> into prey plasmid
panD for pGBKT7 R	GCAGGTCGACGGATCCTCAGGCAACCTGT ACCGGAAT	Clone <i>panD</i> into prey plasmid
T7 Terminator	TATGCTAGTTATTGCTCAG	Sequencing inserts in all other vectors
panM for pKLD66 F	ATCTCTACTTCCAAGGTACCATGAAGCTGA CCATTCTTCGT	Clone <i>panM</i> into pKLD66
panM for pKLD66 R	GTGCGGCCGCAAGCTTTTAGCGCTTCTCC CAGCC ¹	Clone <i>panM</i> into pKLD66
panD pT7-7 F NdeI	GAAGGAGATATACATATGATTCGCACCATG CTG	Clone <i>panD</i> into pT7-7
panD pT7-7 R BamHI	GACTCTAGAGGATCCTCAGGCAACCTGTAC CGGAAT	Clone <i>panD</i> into pT7-7

^aAll genes listed are *S. enterica* LT2 unless otherwise stated