Pham 203220

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1: Poompha_84 + 3							
1. Foompha_64 + 5			Ň		^c ⁵		
2: Twister_87 + 5		6	~		²		
3: Rebeuca_87			~		ې بې		<u>ب</u> ه
			Ì		Ì		N.
4: Insomnia_99 + 5					<u>~</u>		
					<u>ب</u>		
5: PainterBoy_93 + 2							
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6: LittleCherry_84 + 2							
	∿ ⊳	<u>م</u> ۱	~ ~	×۲	<u>ر</u> ه ا	<i>ر</i> ه	
7: George_81							
			8 ¹ 0	₹¥ I	<u>ر</u> ه ا	<i>ر</i> ۵	
8: Micasa_87							
	ი ⊳	6 1 	~0	<u>ې</u>	Ś	××	
9: Swirley_85							
-			9		<i>₹</i> ®		
10: PP_09							

Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly with annotated starts, the track will be further scaled to only show that region of the ORF with annotated starts. This action will be indicated by adding "Zoomed" to the title. For starts, yellow indicates the location of called starts comprised solely of Glimmer/GeneMark auto-annotations, green indicates the location of called starts with at least 1 manual gene annotation.

Pham 203220 Report

This analysis was run 01/18/25 on database version 583.

Pham number 203220 has 27 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Poompha_84, Drake94_83, PeaceMeal1_83, KittenMittens_81
- Track 2 : Twister_87, Topanga_76, Edison31_73, Hutc2_97, Salz_96,
- WalterMcMickey_86
- Track 3 : Rebeuca_87
- Track 4 : Insomnia_99, Sham4_96, TinyTimmy_97, Petersenfast_93, Flaverint_100, MaCh_99
- Track 5 : PainterBoy_93, EagleEye_96, Lucyedi_94
- Track 6 : LittleCherry_84, Milcery_84, Twigg_85
- Track 7 : George_81
- Track 8 : Micasa_87
- Track 9 : Swirley_85
- Track 10 : PP_09

Summary of Final Annotations (See graph section above for start numbers):

The start number called the most often in the published annotations is 11, it was called in 19 of the 25 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• Drake94_83, EagleEye_96, Edison31_73, Flaverint_100, Hutc2_97, Insomnia_99, KittenMittens_81, Lucyedi_94, MaCh_99, PainterBoy_93, PeaceMeal1_83, Petersenfast_93, Poompha_84, Rebeuca_87, Salz_96, Sham4_96, TinyTimmy_97, Topanga_76, Twister_87, WalterMcMickey_86,

Genes that have the "Most Annotated" start but do not call it:

Genes that do not have the "Most Annotated" start: • George_81, LittleCherry_84, Micasa_87, Milcery_84, PP_09, Swirley_85, Twigg_85,

Summary by start number:

Start 9:

• Found in 1 of 27 (3.7%) of genes in pham

- Manual Annotations of this start: 1 of 25
- Called 100.0% of time when present
- Phage (with cluster) where this start called: PP_09 (A7),

Start 10:

- Found in 6 of 27 (22.2%) of genes in pham
- Manual Annotations of this start: 4 of 25
- Called 83.3% of time when present

• Phage (with cluster) where this start called: LittleCherry_84 (A5), Micasa_87 (A5), Milcery_84 (A5), Swirley_85 (A5), Twigg_85 (A5),

Start 11:

- Found in 20 of 27 (74.1%) of genes in pham
- Manual Annotations of this start: 19 of 25
- Called 100.0% of time when present

• Phage (with cluster) where this start called: Drake94_83 (A10), EagleEye_96 (A16), Edison31_73 (A10), Flaverint_100 (A11), Hutc2_97 (A11), Insomnia_99 (A11), KittenMittens_81 (A10), Lucyedi_94 (A16), MaCh_99 (A11), PainterBoy_93 (A16), PeaceMeal1_83 (A10), Petersenfast_93 (A11), Poompha_84 (A10), Rebeuca_87 (A10), Salz_96 (A11), Sham4_96 (A11), TinyTimmy_97 (A11), Topanga_76 (A10), Twister_87 (A10), WalterMcMickey_86 (A10),

Start 12:

- Found in 6 of 27 (22.2%) of genes in pham
- Manual Annotations of this start: 1 of 25
- Called 16.7% of time when present
- Phage (with cluster) where this start called: George_81 (A5),

Summary by clusters:

There are 5 clusters represented in this pham: A5, A16, A11, A10, A7,

Info for manual annotations of cluster A10: •Start number 11 was manually annotated 9 times for cluster A10.

Info for manual annotations of cluster A11: •Start number 11 was manually annotated 7 times for cluster A11.

Info for manual annotations of cluster A16: •Start number 11 was manually annotated 3 times for cluster A16.

Info for manual annotations of cluster A5:Start number 10 was manually annotated 4 times for cluster A5.Start number 12 was manually annotated 1 time for cluster A5.

Info for manual annotations of cluster A7:Start number 9 was manually annotated 1 time for cluster A7.

Gene Information:

Gene: Drake94_83 Start: 48766, Stop: 48662, Start Num: 11

Candidate Starts for Drake94_83: (Start: 11 @48766 has 19 MA's), (13, 48739),

Gene: EagleEye_96 Start: 51407, Stop: 51303, Start Num: 11 Candidate Starts for EagleEye_96: (2, 51491), (Start: 11 @51407 has 19 MA's), (13, 51380),

Gene: Edison31_73 Start: 45753, Stop: 45649, Start Num: 11 Candidate Starts for Edison31_73: (Start: 11 @45753 has 19 MA's), (13, 45726),

Gene: Flaverint_100 Start: 51095, Stop: 50988, Start Num: 11 Candidate Starts for Flaverint_100: (Start: 11 @51095 has 19 MA's), (13, 51065), (15, 50996),

Gene: George_81 Start: 49646, Stop: 49548, Start Num: 12 Candidate Starts for George_81: (3, 49739), (4, 49730), (6, 49697), (7, 49694), (8, 49667), (Start: 10 @49661 has 4 MA's), (Start: 12 @49646 has 1 MA's), (13, 49625), (14, 49589),

Gene: Hutc2_97 Start: 49903, Stop: 49796, Start Num: 11 Candidate Starts for Hutc2_97: (Start: 11 @49903 has 19 MA's), (13, 49873),

Gene: Insomnia_99 Start: 51129, Stop: 51022, Start Num: 11 Candidate Starts for Insomnia_99: (Start: 11 @51129 has 19 MA's), (13, 51099), (15, 51030),

Gene: KittenMittens_81 Start: 48769, Stop: 48665, Start Num: 11 Candidate Starts for KittenMittens_81: (Start: 11 @48769 has 19 MA's), (13, 48742),

Gene: LittleCherry_84 Start: 48771, Stop: 48658, Start Num: 10 Candidate Starts for LittleCherry_84: (3, 48849), (4, 48840), (6, 48807), (7, 48804), (8, 48777), (Start: 10 @48771 has 4 MA's), (Start: 12 @48756 has 1 MA's), (13, 48735), (14, 48699),

Gene: Lucyedi_94 Start: 51420, Stop: 51316, Start Num: 11 Candidate Starts for Lucyedi_94: (2, 51504), (Start: 11 @51420 has 19 MA's), (13, 51393),

Gene: MaCh_99 Start: 51092, Stop: 50985, Start Num: 11 Candidate Starts for MaCh_99: (Start: 11 @51092 has 19 MA's), (13, 51062), (15, 50993),

Gene: Micasa_87 Start: 49438, Stop: 49325, Start Num: 10 Candidate Starts for Micasa_87: (8, 49444), (Start: 10 @49438 has 4 MA's), (Start: 12 @49423 has 1 MA's), (13, 49402), (14, 49366),

Gene: Milcery_84 Start: 49067, Stop: 48954, Start Num: 10 Candidate Starts for Milcery_84: (3, 49145), (4, 49136), (6, 49103), (7, 49100), (8, 49073), (Start: 10 @49067 has 4 MA's), (Start: 12 @49052 has 1 MA's), (13, 49031), (14, 48995), Gene: PP_09 Start: 2269, Stop: 2150, Start Num: 9 Candidate Starts for PP_09: (1, 2356), (Start: 9 @2269 has 1 MA's), (13, 2227),

Gene: PainterBoy_93 Start: 51131, Stop: 51027, Start Num: 11 Candidate Starts for PainterBoy_93: (2, 51215), (Start: 11 @51131 has 19 MA's), (13, 51104),

Gene: PeaceMeal1_83 Start: 48773, Stop: 48669, Start Num: 11 Candidate Starts for PeaceMeal1_83: (Start: 11 @48773 has 19 MA's), (13, 48746),

Gene: Petersenfast_93 Start: 49528, Stop: 49421, Start Num: 11 Candidate Starts for Petersenfast_93: (Start: 11 @49528 has 19 MA's), (13, 49498), (15, 49429),

Gene: Poompha_84 Start: 48962, Stop: 48858, Start Num: 11 Candidate Starts for Poompha_84: (Start: 11 @48962 has 19 MA's), (13, 48935),

Gene: Rebeuca_87 Start: 50078, Stop: 49974, Start Num: 11 Candidate Starts for Rebeuca_87: (5, 50123), (Start: 11 @50078 has 19 MA's), (13, 50051),

Gene: Salz_96 Start: 49825, Stop: 49718, Start Num: 11 Candidate Starts for Salz_96: (Start: 11 @49825 has 19 MA's), (13, 49795),

Gene: Sham4_96 Start: 49843, Stop: 49736, Start Num: 11 Candidate Starts for Sham4_96: (Start: 11 @49843 has 19 MA's), (13, 49813), (15, 49744),

Gene: Swirley_85 Start: 47789, Stop: 47676, Start Num: 10 Candidate Starts for Swirley_85: (3, 47867), (4, 47858), (6, 47825), (7, 47822), (Start: 10 @47789 has 4 MA's), (Start: 12 @47774 has 1 MA's), (13, 47753), (14, 47717),

Gene: TinyTimmy_97 Start: 50342, Stop: 50235, Start Num: 11 Candidate Starts for TinyTimmy_97: (Start: 11 @50342 has 19 MA's), (13, 50312), (15, 50243),

Gene: Topanga_76 Start: 46554, Stop: 46450, Start Num: 11 Candidate Starts for Topanga_76: (Start: 11 @46554 has 19 MA's), (13, 46527),

Gene: Twigg_85 Start: 49193, Stop: 49080, Start Num: 10 Candidate Starts for Twigg_85: (3, 49271), (4, 49262), (6, 49229), (7, 49226), (8, 49199), (Start: 10 @49193 has 4 MA's), (Start: 12 @49178 has 1 MA's), (13, 49157), (14, 49121),

Gene: Twister_87 Start: 49768, Stop: 49664, Start Num: 11 Candidate Starts for Twister_87: (Start: 11 @49768 has 19 MA's), (13, 49741),

Gene: WalterMcMickey_86 Start: 49768, Stop: 49664, Start Num: 11 Candidate Starts for WalterMcMickey_86: (Start: 11 @49768 has 19 MA's), (13, 49741),