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1: Abidatro_64	,X ^k	1 9	₽ ₽ ₽	ું જે		high of
2: Basilisk_64						
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B: KendraB23_74 + 1	, M	o,	∿r ³ r ^b	<u>ጵ</u> ት ት		· · · · · · · · · · · · · · · · · · ·
4: Jamur_61					_	
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Б: Brynnie_61	19			<u>^</u>		ତ ନିଂ
6: TaylorSipht_62						
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7: Chickaboom_63	,\k	<i>\</i> 9	₽ ₽ ₽	ი^ იჭ-	ર્જ જ	кжр бу-
B: Ruchi_62	1.02 x ² /		<u>م</u> ر			<i>ұ</i> , дұ,
Ð: Galaxy_63						
B. Galaxy_03	6		I	v Pr	્યુ	49 645°
10: Gravel_74 + 2	6		r P	* ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
11: Toad24_65 + 1						
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12: Lunar_65	~ ~?	1 0	2 ^A	Ŷ		° A ⊗
13: Daob_64	6 V V	.9	J ^k	4		\$2 \$2 \$ 2
14: Kepler_64						
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15: Bibble12_67 + 1	<i>γ</i> ο	S,		Ŷ		\$ ^{\$}
16: Coral_63						
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17: Andrew_68	,1 ,8	. ∾	r P		ĥ	\$ \$ \$
18: StuartMinion_56						

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 216529 Report

This analysis was run 02/22/25 on database version 588.

Pham number 216529 has 23 members, 7 are drafts.

Phages represented in each track:

- Track 1 : Abidatro 64
- Track 2 : Basilisk 64
- Track 3 : KendraB23 74, Eesa 63
- Track 4 : Jamun 61
- Track 5 : Brynnie 61
- Track 6 : TaylorSipht_62 Track 7 : Chickaboom_63
- Track 8 : Ruchi 62
- Track 9 : Galaxy_63
- Track 10 : Gravel_74, Pelletreau_74, Orcanus_63
- Track 11 : Toad24_65, Westrich_72
- Track 12 : Lunar 65
- Track 13 : Daob_64 Track 14 : Kepler_64
- Track 15 : Bibble12_67, Cote_66
- Track 16 : Coral 63
- Track 17 : Andrew_68
- Track 18 : StuartMinion 56

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

The start number called the most often in the published annotations is 15, it was called in 3 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start: Bibble12_67, Coral_63, Cote_66, Lunar_65,

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

Genes that do not have the "Most Annotated" start:

• Abidatro_64, Andrew_68, Basilisk_64, Brynnie_61, Chickaboom_63, Daob_64, Eesa_63, Galaxy_63, Gravel_74, Jamun_61, KendraB23_74, Kepler_64, Orcanus_63, Pelletreau_74, Ruchi_62, StuartMinion_56, TaylorSipht_62, Toad24_65, Westrich_72,

Summary by start number:

Start 6:

- Found in 8 of 23 (34.8%) of genes in pham
- Manual Annotations of this start: 2 of 16
- Called 87.5% of time when present

• Phage (with cluster) where this start called: Eesa_63 (AS1), Gravel_74 (AS1), KendraB23_74 (AS1), Orcanus_63 (AS1), Pelletreau_74 (AS1), Toad24_65 (AS1), Westrich_72 (AS1),

Start 7:

- Found in 3 of 23 (13.0%) of genes in pham
- Manual Annotations of this start: 1 of 16
- Called 33.3% of time when present
- Phage (with cluster) where this start called: TaylorSipht_62 (AS1),

Start 8:

- Found in 1 of 23 (4.3%) of genes in pham
- Manual Annotations of this start: 1 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Chickaboom_63 (AS1),

Start 9:

- Found in 4 of 23 (17.4%) of genes in pham
- Manual Annotations of this start: 2 of 16
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Abidatro_64 (AS1), Galaxy_63 (AS1),

Start 11:

- Found in 1 of 23 (4.3%) of genes in pham
- Manual Annotations of this start: 1 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Daob_64 (AS2),

Start 12:

- Found in 3 of 23 (13.0%) of genes in pham
- Manual Annotations of this start: 1 of 16
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Ruchi_62 (AS1),

Start 13:

- Found in 2 of 23 (8.7%) of genes in pham
- Manual Annotations of this start: 1 of 16
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Kepler_64 (AS2),

Start 14:

- Found in 4 of 23 (17.4%) of genes in pham
- Manual Annotations of this start: 3 of 16
- Called 75.0% of time when present

• Phage (with cluster) where this start called: Basilisk_64 (AS1), Brynnie_61 (AS1), Jamun_61 (AS1),

Start 15:

- Found in 4 of 23 (17.4%) of genes in pham
- Manual Annotations of this start: 3 of 16
- Called 100.0% of time when present

• Phage (with cluster) where this start called: Bibble12_67 (AS2), Coral_63 (AS2), Cote_66 (AS2), Lunar_65 (AS2),

Start 18:

- Found in 2 of 23 (8.7%) of genes in pham
- Manual Annotations of this start: 1 of 16
- Called 100.0% of time when present

• Phage (with cluster) where this start called: Andrew_68 (AS3), StuartMinion_56 (AS3),

Summary by clusters:

There are 3 clusters represented in this pham: AS3, AS2, AS1,

Info for manual annotations of cluster AS1:

•Start number 6 was manually annotated 2 times for cluster AS1.

•Start number 7 was manually annotated 1 time for cluster AS1.

•Start number 8 was manually annotated 1 time for cluster AS1.

•Start number 9 was manually annotated 2 times for cluster AS1.

•Start number 12 was manually annotated 1 time for cluster AS1.

•Start number 14 was manually annotated 3 times for cluster AS1.

Info for manual annotations of cluster AS2:

•Start number 11 was manually annotated 1 time for cluster AS2.

•Start number 13 was manually annotated 1 time for cluster AS2.

•Start number 15 was manually annotated 3 times for cluster AS2.

Info for manual annotations of cluster AS3: •Start number 18 was manually annotated 1 time for cluster AS3.

Gene Information:

Gene: Abidatro_64 Start: 37871, Stop: 38137, Start Num: 9 Candidate Starts for Abidatro_64: (Start: 7 @37868 has 1 MA's), (Start: 9 @37871 has 2 MA's), (20, 37931), (26, 37988), (38, 38069), (42, 38084),

Gene: Andrew_68 Start: 37133, Stop: 37360, Start Num: 18 Candidate Starts for Andrew_68: (2, 37028), (3, 37031), (5, 37073), (Start: 18 @37133 has 1 MA's), (19, 37148), (22, 37175), (51, 37343),

Gene: Basilisk_64 Start: 37561, Stop: 37818, Start Num: 14 Candidate Starts for Basilisk_64: (Start: 12 @37558 has 1 MA's), (Start: 14 @37561 has 3 MA's), (19, 37597), (22, 37624), (24, 37645), (26, 37657), (31, 37690), (32, 37699), (35, 37729), (39, 37750), (43, 37765), (45, 37768), (52, 37810),

Gene: Bibble12_67 Start: 36185, Stop: 36433, Start Num: 15 Candidate Starts for Bibble12_67: (Start: 15 @36185 has 3 MA's), (19, 36212), (27, 36278), (48, 36398),

Gene: Brynnie_61 Start: 37395, Stop: 37631, Start Num: 14 Candidate Starts for Brynnie_61: (4, 37341), (Start: 14 @37395 has 3 MA's), (16, 37401), (19, 37425), (21, 37449), (22, 37452), (24, 37473), (25, 37479), (26, 37485), (31, 37518), (33, 37533), (52, 37623),

Gene: Chickaboom_63 Start: 37496, Stop: 37771, Start Num: 8 Candidate Starts for Chickaboom_63: (Start: 8 @37496 has 1 MA's), (Start: 9 @37499 has 2 MA's), (25, 37610), (30, 37646), (31, 37649), (42, 37718), (44, 37721), (52, 37763),

Gene: Coral_63 Start: 36092, Stop: 36337, Start Num: 15 Candidate Starts for Coral_63: (Start: 15 @36092 has 3 MA's), (19, 36119), (27, 36185), (48, 36305), (53, 36332),

Gene: Cote_66 Start: 36528, Stop: 36776, Start Num: 15 Candidate Starts for Cote_66: (Start: 15 @36528 has 3 MA's), (19, 36555), (27, 36621), (48, 36741),

Gene: Daob_64 Start: 35856, Stop: 36119, Start Num: 11 Candidate Starts for Daob_64: (Start: 11 @35856 has 1 MA's), (Start: 13 @35865 has 1 MA's), (19, 35898), (24, 35946), (27, 35964), (46, 36075), (48, 36084),

Gene: Eesa_63 Start: 38775, Stop: 39053, Start Num: 6 Candidate Starts for Eesa_63: (Start: 6 @38775 has 2 MA's), (23, 38871), (29, 38925), (31, 38931), (37, 38976), (50, 39033), (52, 39045), (53, 39048),

Gene: Galaxy_63 Start: 36697, Stop: 36963, Start Num: 9 Candidate Starts for Galaxy_63: (Start: 7 @36694 has 1 MA's), (Start: 9 @36697 has 2 MA's), (Start: 12 @36718 has 1 MA's), (26, 36814), (42, 36913), (52, 36955), (53, 36958),

Gene: Gravel_74 Start: 39031, Stop: 39309, Start Num: 6 Candidate Starts for Gravel_74: (Start: 6 @39031 has 2 MA's), (27, 39160), (29, 39181), (31, 39187), (37, 39232), (50, 39289), (52, 39301), (53, 39304),

Gene: Jamun_61 Start: 37765, Stop: 38004, Start Num: 14 Candidate Starts for Jamun_61: (1, 37639), (Start: 14 @37765 has 3 MA's), (19, 37795), (22, 37822), (23, 37828), (24, 37843), (28, 37870), (32, 37897), (33, 37903), (52, 37996),

Gene: KendraB23_74 Start: 38736, Stop: 39014, Start Num: 6 Candidate Starts for KendraB23_74: (Start: 6 @38736 has 2 MA's), (23, 38832), (29, 38886), (31, 38892), (37, 38937), (50, 38994), (52, 39006), (53, 39009),

Gene: Kepler_64 Start: 35869, Stop: 36123, Start Num: 13 Candidate Starts for Kepler_64: (Start: 6 @35839 has 2 MA's), (10, 35854), (Start: 13 @35869 has 1 MA's), (19, 35902), (24, 35950), (27, 35968), (46, 36079), (48, 36088), (52, 36115),

Gene: Lunar_65 Start: 36215, Stop: 36460, Start Num: 15 Candidate Starts for Lunar_65: (Start: 15 @36215 has 3 MA's), (19, 36242), (24, 36290), (27, 36308), (46, 36419), (48, 36428), (53, 36455),

Gene: Orcanus_63 Start: 38262, Stop: 38540, Start Num: 6 Candidate Starts for Orcanus_63: (Start: 6 @38262 has 2 MA's), (27, 38391), (29, 38412), (31, 38418), (37, 38463), (50, 38520), (52, 38532), (53, 38535),

Gene: Pelletreau_74 Start: 39031, Stop: 39309, Start Num: 6 Candidate Starts for Pelletreau_74: (Start: 6 @39031 has 2 MA's), (27, 39160), (29, 39181), (31, 39187), (37, 39232), (50, 39289), (52, 39301), (53, 39304),

Gene: Ruchi_62 Start: 37480, Stop: 37740, Start Num: 12 Candidate Starts for Ruchi_62: (Start: 12 @37480 has 1 MA's), (Start: 14 @37483 has 3 MA's), (19, 37519), (22, 37546), (24, 37567), (26, 37579), (31, 37612), (32, 37621), (35, 37651), (39, 37672), (43, 37687), (45, 37690), (52, 37732),

Gene: StuartMinion_56 Start: 33055, Stop: 33285, Start Num: 18 Candidate Starts for StuartMinion_56: (2, 32950), (3, 32953), (5, 32995), (17, 33046), (Start: 18 @33055 has 1 MA's), (19, 33070), (22, 33097), (25, 33124), (40, 33223), (47, 33250), (49, 33262), (52, 33277),

Gene: TaylorSipht_62 Start: 37850, Stop: 38122, Start Num: 7 Candidate Starts for TaylorSipht_62: (Start: 7 @37850 has 1 MA's), (Start: 9 @37853 has 2 MA's), (31, 38003), (50, 38102), (52, 38114), (53, 38117),

Gene: Toad24_65 Start: 38788, Stop: 39063, Start Num: 6 Candidate Starts for Toad24_65: (Start: 6 @38788 has 2 MA's), (22, 38878), (25, 38905), (28, 38926), (32, 38953), (34, 38977), (36, 38983), (41, 39004),

Gene: Westrich_72 Start: 38955, Stop: 39230, Start Num: 6 Candidate Starts for Westrich_72: (Start: 6 @38955 has 2 MA's), (22, 39045), (25, 39072), (28, 39093), (32, 39120), (34, 39144), (36, 39150), (41, 39171),