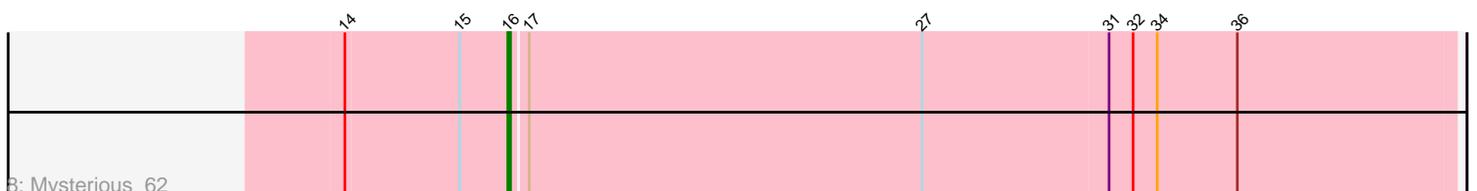
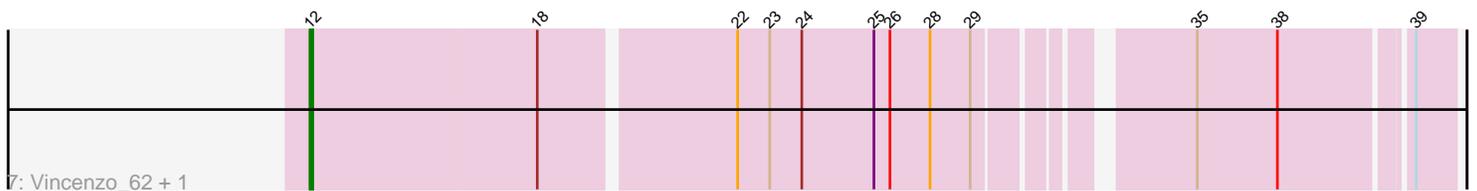
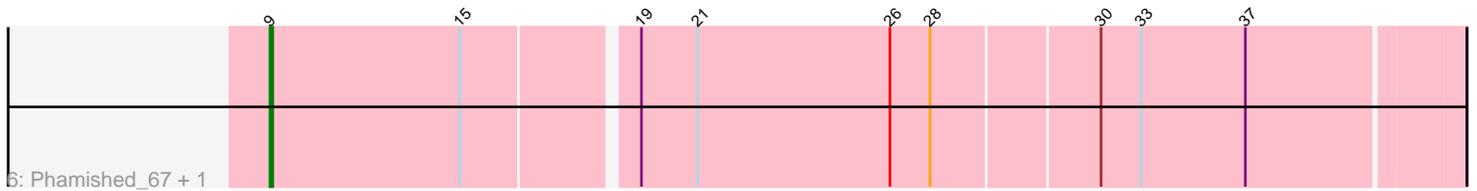
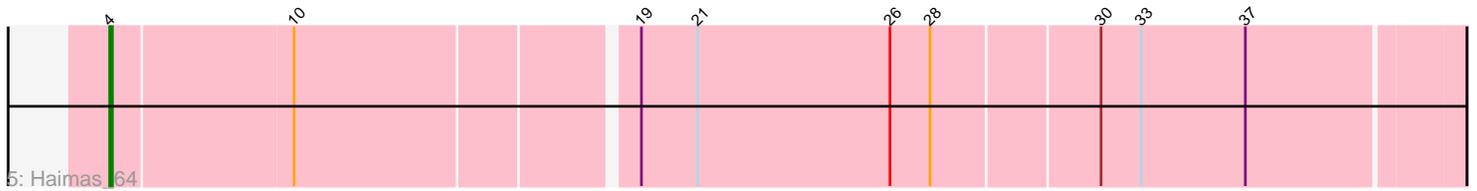
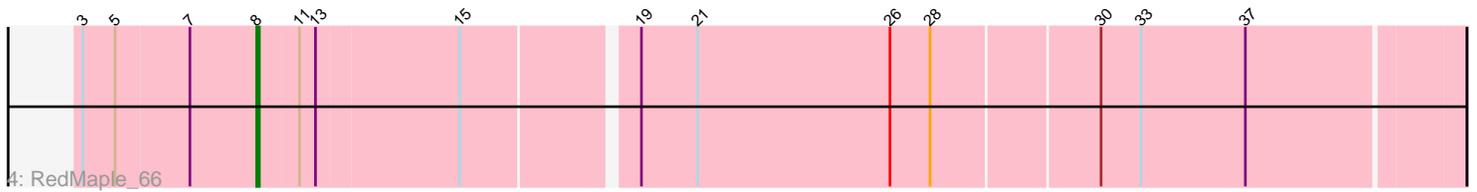
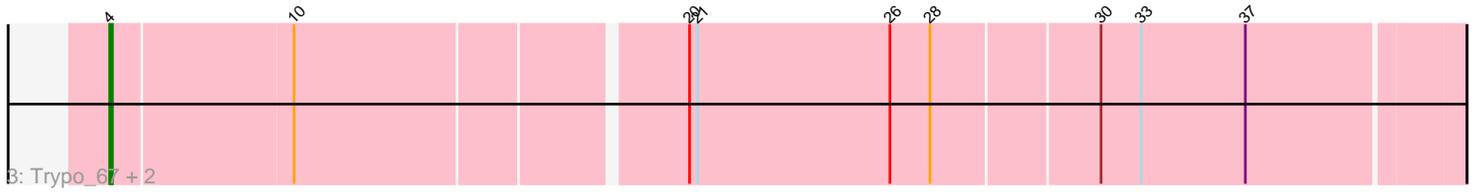
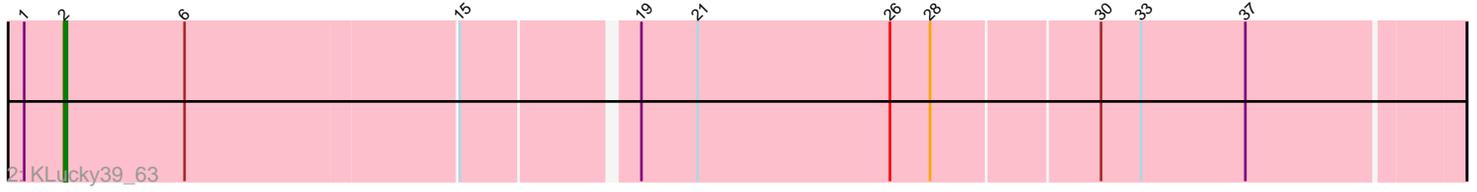
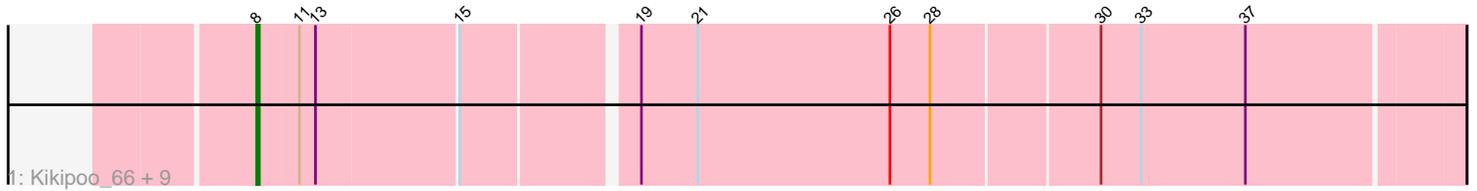


Pham 289764



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 289764 Report

This analysis was run 03/28/26 on database version 641.

Pham number 289764 has 21 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Kikipoo_66, Virgeve_64, SirBeauregard_66, Jesabah_67, FleetyMac_68, Chute_66, IsaacEli_66, Colbert_63, RedRaider89_68, Chaelin_66
- Track 2 : KLucky39_63
- Track 3 : Trypo_67, Oline_65, Thora_64
- Track 4 : RedMaple_66
- Track 5 : Haimas_64
- Track 6 : Phamished_67, Lego3393_63
- Track 7 : Vincenzo_62, AlanGrant_63
- Track 8 : Mysterious_62

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

The start number called the most often in the published annotations is 8, it was called in 7 of the 17 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Chaelin_66, Chute_66, Colbert_63, FleetyMac_68, IsaacEli_66, Jesabah_67, Kikipoo_66, RedMaple_66, RedRaider89_68, SirBeauregard_66, Virgeve_64,

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

-

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

- AlanGrant_63, Haimas_64, KLucky39_63, Lego3393_63, Mysterious_62, Oline_65, Phamished_67, Thora_64, Trypo_67, Vincenzo_62,

Summary by start number:

Start 2:

- Found in 1 of 21 (4.8%) of genes in pham
- Manual Annotations of this start: 1 of 17
- Called 100.0% of time when present
- Phage (with cluster) where this start called: KLucky39_63 (B1),

Start 4:

- Found in 4 of 21 (19.0%) of genes in pham
- Manual Annotations of this start: 4 of 17
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Haimas_64 (B1), Oline_65 (B1), Thora_64 (B1), Trypo_67 (B1),

Start 8:

- Found in 11 of 21 (52.4%) of genes in pham
- Manual Annotations of this start: 7 of 17
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Chaelin_66 (B1), Chute_66 (B1), Colbert_63 (B1), FleetyMac_68 (B1), IsaacEli_66 (B1), Jesabah_67 (B1), Kikipoo_66 (B1), RedMaple_66 (B1), RedRaider89_68 (B1), SirBeauregard_66 (B1), Virgeve_64 (B1),

Start 9:

- Found in 2 of 21 (9.5%) of genes in pham
- Manual Annotations of this start: 2 of 17
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Lego3393_63 (B1), Phamished_67 (B1),

Start 12:

- Found in 2 of 21 (9.5%) of genes in pham
- Manual Annotations of this start: 2 of 17
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AlanGrant_63 (B4), Vincenzo_62 (B4),

Start 16:

- Found in 1 of 21 (4.8%) of genes in pham
- Manual Annotations of this start: 1 of 17
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Mysterious_62 (B5),

Summary by clusters:

There are 3 clusters represented in this pham: B4, B5, B1,

Info for manual annotations of cluster B1:

- Start number 2 was manually annotated 1 time for cluster B1.
- Start number 4 was manually annotated 4 times for cluster B1.
- Start number 8 was manually annotated 7 times for cluster B1.
- Start number 9 was manually annotated 2 times for cluster B1.

Info for manual annotations of cluster B4:

- Start number 12 was manually annotated 2 times for cluster B4.

Info for manual annotations of cluster B5:

- Start number 16 was manually annotated 1 time for cluster B5.

Gene Information:

Gene: AlanGrant_63 Start: 57986, Stop: 57591, Start Num: 12

Candidate Starts for AlanGrant_63:

(Start: 12 @57986 has 2 MA's), (18, 57902), (22, 57833), (23, 57821), (24, 57809), (25, 57782), (26, 57776), (28, 57761), (29, 57746), (35, 57680), (38, 57650), (39, 57605),

Gene: Chaelin_66 Start: 56180, Stop: 55749, Start Num: 8

Candidate Starts for Chaelin_66:

(Start: 8 @56180 has 7 MA's), (11, 56165), (13, 56159), (15, 56108), (19, 56048), (21, 56027), (26, 55955), (28, 55940), (30, 55880), (33, 55865), (37, 55826),

Gene: Chute_66 Start: 56208, Stop: 55777, Start Num: 8

Candidate Starts for Chute_66:

(Start: 8 @56208 has 7 MA's), (11, 56193), (13, 56187), (15, 56136), (19, 56076), (21, 56055), (26, 55983), (28, 55968), (30, 55908), (33, 55893), (37, 55854),

Gene: Colbert_63 Start: 55206, Stop: 54775, Start Num: 8

Candidate Starts for Colbert_63:

(Start: 8 @55206 has 7 MA's), (11, 55191), (13, 55185), (15, 55134), (19, 55074), (21, 55053), (26, 54981), (28, 54966), (30, 54906), (33, 54891), (37, 54852),

Gene: FleetyMac_68 Start: 55830, Stop: 55399, Start Num: 8

Candidate Starts for FleetyMac_68:

(Start: 8 @55830 has 7 MA's), (11, 55815), (13, 55809), (15, 55758), (19, 55698), (21, 55677), (26, 55605), (28, 55590), (30, 55530), (33, 55515), (37, 55476),

Gene: Haimas_64 Start: 55627, Stop: 55142, Start Num: 4

Candidate Starts for Haimas_64:

(Start: 4 @55627 has 4 MA's), (10, 55561), (19, 55441), (21, 55420), (26, 55348), (28, 55333), (30, 55273), (33, 55258), (37, 55219),

Gene: IsaacEli_66 Start: 56148, Stop: 55717, Start Num: 8

Candidate Starts for IsaacEli_66:

(Start: 8 @56148 has 7 MA's), (11, 56133), (13, 56127), (15, 56076), (19, 56016), (21, 55995), (26, 55923), (28, 55908), (30, 55848), (33, 55833), (37, 55794),

Gene: Jesabah_67 Start: 56749, Stop: 56318, Start Num: 8

Candidate Starts for Jesabah_67:

(Start: 8 @56749 has 7 MA's), (11, 56734), (13, 56728), (15, 56677), (19, 56617), (21, 56596), (26, 56524), (28, 56509), (30, 56449), (33, 56434), (37, 56395),

Gene: KLucky39_63 Start: 55283, Stop: 54780, Start Num: 2

Candidate Starts for KLucky39_63:

(1, 55298), (Start: 2 @55283 has 1 MA's), (6, 55238), (15, 55139), (19, 55079), (21, 55058), (26, 54986), (28, 54971), (30, 54911), (33, 54896), (37, 54857),

Gene: Kikipoo_66 Start: 56148, Stop: 55717, Start Num: 8

Candidate Starts for Kikipoo_66:

(Start: 8 @56148 has 7 MA's), (11, 56133), (13, 56127), (15, 56076), (19, 56016), (21, 55995), (26, 55923), (28, 55908), (30, 55848), (33, 55833), (37, 55794),

Gene: Lego3393_63 Start: 56186, Stop: 55758, Start Num: 9

Candidate Starts for Lego3393_63:

(Start: 9 @56186 has 2 MA's), (15, 56117), (19, 56057), (21, 56036), (26, 55964), (28, 55949), (30, 55889), (33, 55874), (37, 55835),

Gene: Mysterious_62 Start: 57001, Stop: 56651, Start Num: 16

Candidate Starts for Mysterious_62:

(14, 57061), (15, 57019), (Start: 16 @57001 has 1 MA's), (17, 56995), (27, 56848), (31, 56779), (32, 56770), (34, 56761), (36, 56731),

Gene: Oline_65 Start: 55790, Stop: 55305, Start Num: 4

Candidate Starts for Oline_65:

(Start: 4 @55790 has 4 MA's), (10, 55724), (20, 55586), (21, 55583), (26, 55511), (28, 55496), (30, 55436), (33, 55421), (37, 55382),

Gene: Phamished_67 Start: 55840, Stop: 55412, Start Num: 9

Candidate Starts for Phamished_67:

(Start: 9 @55840 has 2 MA's), (15, 55771), (19, 55711), (21, 55690), (26, 55618), (28, 55603), (30, 55543), (33, 55528), (37, 55489),

Gene: RedMaple_66 Start: 56386, Stop: 55955, Start Num: 8

Candidate Starts for RedMaple_66:

(3, 56449), (5, 56437), (7, 56410), (Start: 8 @56386 has 7 MA's), (11, 56371), (13, 56365), (15, 56314), (19, 56254), (21, 56233), (26, 56161), (28, 56146), (30, 56086), (33, 56071), (37, 56032),

Gene: RedRaider89_68 Start: 56077, Stop: 55646, Start Num: 8

Candidate Starts for RedRaider89_68:

(Start: 8 @56077 has 7 MA's), (11, 56062), (13, 56056), (15, 56005), (19, 55945), (21, 55924), (26, 55852), (28, 55837), (30, 55777), (33, 55762), (37, 55723),

Gene: SirBeauregard_66 Start: 56180, Stop: 55749, Start Num: 8

Candidate Starts for SirBeauregard_66:

(Start: 8 @56180 has 7 MA's), (11, 56165), (13, 56159), (15, 56108), (19, 56048), (21, 56027), (26, 55955), (28, 55940), (30, 55880), (33, 55865), (37, 55826),

Gene: Thora_64 Start: 55975, Stop: 55490, Start Num: 4

Candidate Starts for Thora_64:

(Start: 4 @55975 has 4 MA's), (10, 55909), (20, 55771), (21, 55768), (26, 55696), (28, 55681), (30, 55621), (33, 55606), (37, 55567),

Gene: Trypo_67 Start: 56360, Stop: 55875, Start Num: 4

Candidate Starts for Trypo_67:

(Start: 4 @56360 has 4 MA's), (10, 56294), (20, 56156), (21, 56153), (26, 56081), (28, 56066), (30, 56006), (33, 55991), (37, 55952),

Gene: Vincenzo_62 Start: 58016, Stop: 57621, Start Num: 12

Candidate Starts for Vincenzo_62:

(Start: 12 @58016 has 2 MA's), (18, 57932), (22, 57863), (23, 57851), (24, 57839), (25, 57812), (26, 57806), (28, 57791), (29, 57776), (35, 57710), (38, 57680), (39, 57635),

Gene: Virgeve_64 Start: 55598, Stop: 55167, Start Num: 8

Candidate Starts for Virgeve_64:

(Start: 8 @55598 has 7 MA's), (11, 55583), (13, 55577), (15, 55526), (19, 55466), (21, 55445), (26, 55373), (28, 55358), (30, 55298), (33, 55283), (37, 55244),