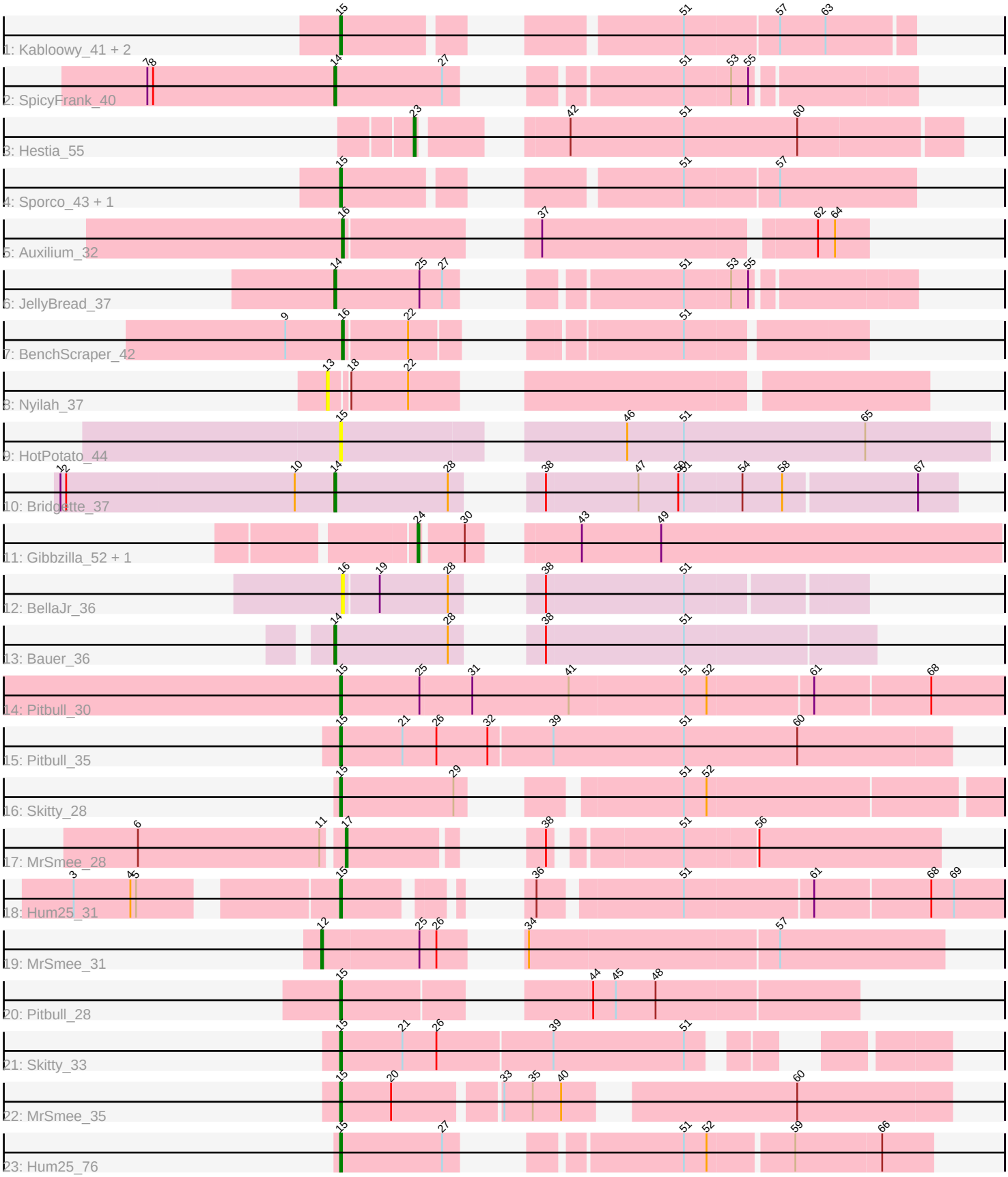
Pham 295006


1: Kabloowy_41 + 2
2: SpicyFrank_40
3: Hestia_55
4: Sporco_43 + 1
5: Auxilium_32
6: JellyBread_37
7: BenchScraper_42
8: Nyilah_37
9: HotPotato_44
10: Bridgette_37
11: Gibbzilla_52 + 1
12: BellaJr_36
13: Bauer_36
14: Pitbull_30
15: Pitbull_35
16: Skitty_28
17: MrSmee_28
18: Hum25_31
19: MrSmee_31
20: Pitbull_28
21: Skitty_33
22: MrSmee_35
23: Hum25_76

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 295006 Report

This analysis was run 04/18/26 on database version 643.

Pham number 295006 has 27 members, 6 are drafts.

Phages represented in each track:
- Track 1 : Kabloowy_41, Hillester_41, RadFad_41
- Track 2 : SpicyFrank_40
- Track 3 : Hestia_55
- Track 4 : Sporco_43, BillyTP_43
- Track 5 : Auxilium_32
- Track 6 : JellyBread_37
- Track 7 : BenchScraper_42
- Track 8 : Nyilah_37
- Track 9 : HotPotato_44
- Track 10 : Bridgette_37
- Track 11 : Gibbzilla_52, Bauer_55
- Track 12 : BellaJr_36
- Track 13 : Bauer_36
- Track 14 : Pitbull_30
- Track 15 : Pitbull_35
- Track 16 : Skitty_28
- Track 17 : MrSmee_28
- Track 18 : Hum25_31
- Track 19 : MrSmee_31
- Track 20 : Pitbull_28
- Track 21 : Skitty_33
- Track 22 : MrSmee_35
- Track 23 : Hum25_76

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 11 of the 21 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
- BillyTP_43, Hillester_41, HotPotato_44, Hum25_31, Hum25_76, Kabloowy_41, MrSmee_35, Pitbull_28, Pitbull_30, Pitbull_35, RadFad_41, Skitty_28, Skitty_33, Sporco_43,

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

Genes that do not have the "Most Annotated" start:
• Auxilium_32, Bauer_36, Bauer_55, BellaJr_36, BenchScraper_42, Bridgette_37, Gibbzilla_52, Hestia_55, JellyBread_37, MrSmee_28, MrSmee_31, Nyilah_37, SpicyFrank_40,

Summary by start number:

Start 12:
• Found in 1 of 27 (3.7%) of genes in pham
• Manual Annotations of this start: 1 of 21
• Called 100.0% of time when present
• Phage (with cluster) where this start called: MrSmee_31 (FQ),

Start 13:
• Found in 1 of 27 (3.7%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Nyilah_37 (AY),

Start 14:
• Found in 4 of 27 (14.8%) of genes in pham
• Manual Annotations of this start: 4 of 21
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bauer_36 (FN), Bridgette_37 (FA), JellyBread_37 (AY), SpicyFrank_40 (AY),

Start 15:
• Found in 14 of 27 (51.9%) of genes in pham
• Manual Annotations of this start: 11 of 21
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BillyTP_43 (AY), Hillester_41 (AY), HotPotato_44 (FA), Hum25_31 (FQ), Hum25_76 (FQ), Kabloowy_41 (AY), MrSmee_35 (FQ), Pitbull_28 (FQ), Pitbull_30 (FQ), Pitbull_35 (FQ), RadFad_41 (AY), Skitty_28 (FQ), Skitty_33 (FQ), Sporco_43 (AY),

Start 16:
• Found in 3 of 27 (11.1%) of genes in pham
• Manual Annotations of this start: 2 of 21
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Auxilium_32 (AY), BellaJr_36 (FN), BenchScraper_42 (AY),

Start 17:
• Found in 1 of 27 (3.7%) of genes in pham
• Manual Annotations of this start: 1 of 21
• Called 100.0% of time when present
• Phage (with cluster) where this start called: MrSmee_28 (FQ),

Start 23:
• Found in 1 of 27 (3.7%) of genes in pham

• Manual Annotations of this start: 1 of 21
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Hestia_55 (AY),

Start 24:
• Found in 2 of 27 (7.4%) of genes in pham
• Manual Annotations of this start: 1 of 21
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bauer_55 (FN), Gibbzilla_52 (FB),

Summary by clusters:

There are 5 clusters represented in this pham: AY, FA, FB, FN, FQ,

Info for manual annotations of cluster AY:
•Start number 14 was manually annotated 2 times for cluster AY.
•Start number 15 was manually annotated 3 times for cluster AY.
•Start number 16 was manually annotated 2 times for cluster AY.
•Start number 23 was manually annotated 1 time for cluster AY.

Info for manual annotations of cluster FA:
•Start number 14 was manually annotated 1 time for cluster FA.

Info for manual annotations of cluster FN:
•Start number 14 was manually annotated 1 time for cluster FN.
•Start number 24 was manually annotated 1 time for cluster FN.

Info for manual annotations of cluster FQ:
•Start number 12 was manually annotated 1 time for cluster FQ.
•Start number 15 was manually annotated 8 times for cluster FQ.
•Start number 17 was manually annotated 1 time for cluster FQ.

Gene Information:

Gene: Auxilium_32 Start: 21344, Stop: 21577, Start Num: 16
Candidate Starts for Auxilium_32:
(Start: 16 @21344 has 2 MA's), (37, 21416), (62, 21551), (64, 21560),

Gene: Bauer_55 Start: 32371, Stop: 32652, Start Num: 24
Candidate Starts for Bauer_55:
(Start: 24 @32371 has 1 MA's), (30, 32392), (43, 32431), (49, 32473),

Gene: Bauer_36 Start: 26236, Stop: 26484, Start Num: 14
Candidate Starts for Bauer_36:
(Start: 14 @26236 has 4 MA's), (28, 26296), (38, 26314), (51, 26386),

Gene: BellaJr_36 Start: 27299, Stop: 27532, Start Num: 16
Candidate Starts for BellaJr_36:
(Start: 16 @27299 has 2 MA's), (19, 27317), (28, 27353), (38, 27371), (51, 27443),

Gene: BenchScraper_42 Start: 27914, Stop: 27690, Start Num: 16
Candidate Starts for BenchScraper_42:
(9, 27944), (Start: 16 @27914 has 2 MA's), (22, 27881), (51, 27779),

Gene: BillyTP_43 Start: 29327, Stop: 29073, Start Num: 15
Candidate Starts for BillyTP_43:
(Start: 15 @29327 has 11 MA's), (51, 29189), (57, 29141),

Gene: Bridgette_37 Start: 26378, Stop: 26668, Start Num: 14
Candidate Starts for Bridgette_37:
(1, 26234), (2, 26237), (10, 26357), (Start: 14 @26378 has 4 MA's), (28, 26438), (38, 26456), (47, 26504), (50, 26525), (51, 26528), (54, 26558), (58, 26579), (67, 26648),

Gene: Gibbzilla_52 Start: 28961, Stop: 29242, Start Num: 24
Candidate Starts for Gibbzilla_52:
(Start: 24 @28961 has 1 MA's), (30, 28982), (43, 29021), (49, 29063),

Gene: Hestia_55 Start: 31927, Stop: 32184, Start Num: 23
Candidate Starts for Hestia_55:
(Start: 23 @31927 has 1 MA's), (42, 31981), (51, 32041), (60, 32101),

Gene: Hillester_41 Start: 28078, Stop: 27824, Start Num: 15
Candidate Starts for Hillester_41:
(Start: 15 @28078 has 11 MA's), (51, 27940), (57, 27892), (63, 27868),

Gene: HotPotato_44 Start: 30374, Stop: 30694, Start Num: 15
Candidate Starts for HotPotato_44:
(Start: 15 @30374 has 11 MA's), (46, 30503), (51, 30533), (65, 30629),

Gene: Hum25_31 Start: 23411, Stop: 23121, Start Num: 15
Candidate Starts for Hum25_31:
(3, 23534), (4, 23504), (5, 23501), (Start: 15 @23411 has 11 MA's), (36, 23354), (51, 23285), (61, 23219), (68, 23159), (69, 23147),

Gene: Hum25_76 Start: 39195, Stop: 39458, Start Num: 15
Candidate Starts for Hum25_76:
(Start: 15 @39195 has 11 MA's), (27, 39249), (51, 39333), (52, 39345), (59, 39387), (66, 39432),

Gene: JellyBread_37 Start: 26498, Stop: 26244, Start Num: 14
Candidate Starts for JellyBread_37:
(Start: 14 @26498 has 4 MA's), (25, 26453), (27, 26441), (51, 26357), (53, 26333), (55, 26324),

Gene: Kabloowy_41 Start: 28196, Stop: 27942, Start Num: 15
Candidate Starts for Kabloowy_41:
(Start: 15 @28196 has 11 MA's), (51, 28058), (57, 28010), (63, 27986),

Gene: MrSmee_28 Start: 22939, Stop: 22682, Start Num: 17
Candidate Starts for MrSmee_28:
(6, 23044), (11, 22948), (Start: 17 @22939 has 1 MA's), (38, 22873), (51, 22813), (56, 22777),

Gene: MrSmee_31 Start: 23680, Stop: 23387, Start Num: 12
Candidate Starts for MrSmee_31:
(Start: 12 @23680 has 1 MA's), (25, 23629), (26, 23620), (34, 23602), (57, 23473),

Gene: MrSmee_35 Start: 26014, Stop: 25721, Start Num: 15
Candidate Starts for MrSmee_35:
(Start: 15 @26014 has 11 MA's), (20, 25987), (33, 25936), (35, 25921), (40, 25906), (60, 25801),

Gene: Nyilah_37 Start: 26243, Stop: 25974, Start Num: 13
Candidate Starts for Nyilah_37:
(13, 26243), (18, 26234), (22, 26204),

Gene: Pitbull_30 Start: 22819, Stop: 22475, Start Num: 15
Candidate Starts for Pitbull_30:
(Start: 15 @22819 has 11 MA's), (25, 22777), (31, 22750), (41, 22699), (51, 22639), (52, 22627), (61, 22573), (68, 22513),

Gene: Pitbull_35 Start: 25095, Stop: 24775, Start Num: 15
Candidate Starts for Pitbull_35:
(Start: 15 @25095 has 11 MA's), (21, 25062), (26, 25044), (32, 25017), (39, 24984), (51, 24915), (60, 24855),

Gene: Pitbull_28 Start: 22251, Stop: 22015, Start Num: 15
Candidate Starts for Pitbull_28:
(Start: 15 @22251 has 11 MA's), (44, 22152), (45, 22140), (48, 22119),

Gene: RadFad_41 Start: 28078, Stop: 27824, Start Num: 15
Candidate Starts for RadFad_41:
(Start: 15 @28078 has 11 MA's), (51, 27940), (57, 27892), (63, 27868),

Gene: Skitty_28 Start: 22362, Stop: 22060, Start Num: 15
Candidate Starts for Skitty_28:
(Start: 15 @22362 has 11 MA's), (29, 22302), (51, 22221), (52, 22209),

Gene: Skitty_33 Start: 24641, Stop: 24363, Start Num: 15
Candidate Starts for Skitty_33:
(Start: 15 @24641 has 11 MA's), (21, 24608), (26, 24590), (39, 24530), (51, 24461),

Gene: SpicyFrank_40 Start: 27728, Stop: 27474, Start Num: 14
Candidate Starts for SpicyFrank_40:
(7, 27827), (8, 27824), (Start: 14 @27728 has 4 MA's), (27, 27671), (51, 27587), (53, 27563), (55, 27554),

Gene: Sporco_43 Start: 28586, Stop: 28329, Start Num: 15
Candidate Starts for Sporco_43:
(Start: 15 @28586 has 11 MA's), (51, 28448), (57, 28400),