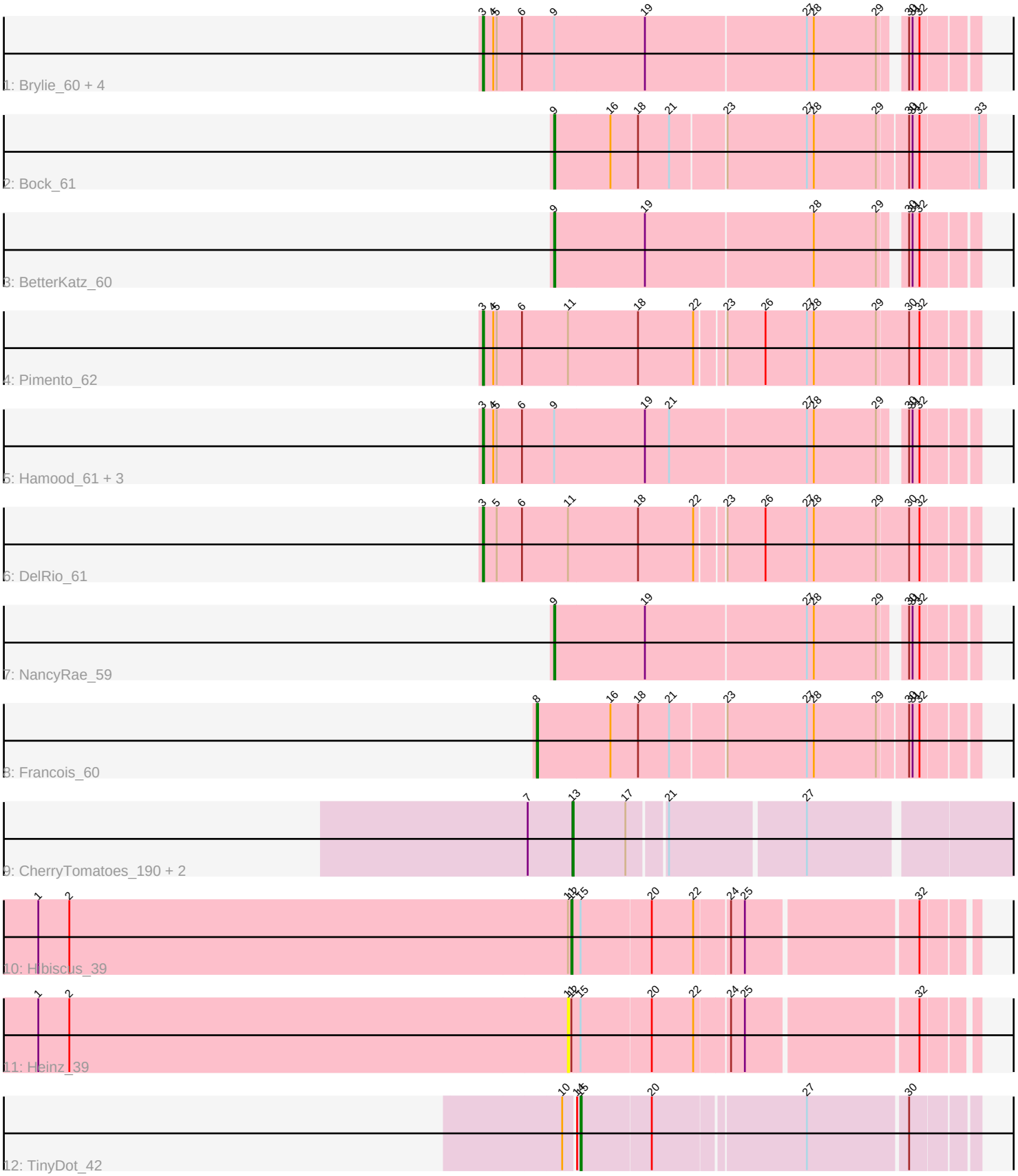
Pham 182594


1: Brylie_60 + 4
2: Bock_61
3: BetterKatz_60
4: Pimento_62
5: Hamood_61 + 3
6: DelRio_61
7: NancyRae_59
8: Francois_60
9: CherryTomatoes_190 + 2
10: Hibiscus_39
11: Heinz_39
12: TinyDot_42

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 182594 Report

This analysis was run 11/02/24 on database version 579.

Pham number 182594 has 21 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Brylie_60, Parada_60, Nadeem_60, Mulch_60, WheatThin_59
• Track 2 : Bock_61
• Track 3 : BetterKatz_60
• Track 4 : Pimento_62
• Track 5 : Hamood_61, Chop_61, GrandSlam_61, Ayotoya_61
• Track 6 : DelRio_61
• Track 7 : NancyRae_59
• Track 8 : Francois_60
• Track 9 : CherryTomatoes_190, SCentae_187, Pupper_188
• Track 10 : Hibiscus_39
• Track 11 : Heinz_39
• Track 12 : TinyDot_42

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

The start number called the most often in the published annotations is 3, it was called in 11 of the 20 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Ayotoya_61, Brylie_60, Chop_61, DelRio_61, GrandSlam_61, Hamood_61, Mulch_60, Nadeem_60, Parada_60, Pimento_62, WheatThin_59,

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

Genes that do not have the "Most Annotated" start:
• BetterKatz_60, Bock_61, CherryTomatoes_190, Francois_60, Heinz_39, Hibiscus_39, NancyRae_59, Pupper_188, SCentae_187, TinyDot_42,

Summary by start number:

Start 3:
• Found in 11 of 21 (52.4%) of genes in pham
• Manual Annotations of this start: 11 of 20

• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ayotoya_61 (DI), Brylie_60 (DI), Chop_61 (DI), DelRio_61 (DI), GrandSlam_61 (DI), Hamood_61 (DI), Mulch_60 (DI), Nadeem_60 (DI), Parada_60 (DI), Pimento_62 (DI), WheatThin_59 (DI),

Start 8:
• Found in 1 of 21 (4.8%) of genes in pham
• Manual Annotations of this start: 1 of 20
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Francois_60 (DI),

Start 9:
• Found in 12 of 21 (57.1%) of genes in pham
• Manual Annotations of this start: 3 of 20
• Called 25.0% of time when present
• Phage (with cluster) where this start called: BetterKatz_60 (DI), Bock_61 (DI), NancyRae_59 (DI),

Start 11:
• Found in 4 of 21 (19.0%) of genes in pham
• No Manual Annotations of this start.
• Called 25.0% of time when present
• Phage (with cluster) where this start called: Heinz_39 (DY),

Start 12:
• Found in 2 of 21 (9.5%) of genes in pham
• Manual Annotations of this start: 1 of 20
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Hibiscus_39 (DY),

Start 13:
• Found in 3 of 21 (14.3%) of genes in pham
• Manual Annotations of this start: 3 of 20
• Called 100.0% of time when present
• Phage (with cluster) where this start called: CherryTomatoes_190 (DO), Pupper_188 (DO), SCentae_187 (DO),

Start 15:
• Found in 3 of 21 (14.3%) of genes in pham
• Manual Annotations of this start: 1 of 20
• Called 33.3% of time when present
• Phage (with cluster) where this start called: TinyDot_42 (singleton),

Summary by clusters:

There are 4 clusters represented in this pham: DO, singleton, DY, DI,

Info for manual annotations of cluster DI:
•Start number 3 was manually annotated 11 times for cluster DI.
•Start number 8 was manually annotated 1 time for cluster DI.
•Start number 9 was manually annotated 3 times for cluster DI.

Info for manual annotations of cluster DO:

•Start number 13 was manually annotated 3 times for cluster DO.

Info for manual annotations of cluster DY:
•Start number 12 was manually annotated 1 time for cluster DY.

Gene Information:

Gene: Ayotoya_61 Start: 41093, Stop: 41497, Start Num: 3
Candidate Starts for Ayotoya_61:
(Start: 3 @41093 has 11 MA's), (4, 41102), (5, 41105), (6, 41126), (Start: 9 @41153 has 3 MA's), (19, 41231), (21, 41252), (27, 41369), (28, 41375), (29, 41429), (30, 41444), (31, 41447), (32, 41453),

Gene: BetterKatz_60 Start: 40307, Stop: 40651, Start Num: 9
Candidate Starts for BetterKatz_60:
(Start: 9 @40307 has 3 MA's), (19, 40385), (28, 40529), (29, 40583), (30, 40598), (31, 40601), (32, 40607),

Gene: Bock_61 Start: 40336, Stop: 40695, Start Num: 9
Candidate Starts for Bock_61:
(Start: 9 @40336 has 3 MA's), (16, 40384), (18, 40408), (21, 40435), (23, 40480), (27, 40549), (28, 40555), (29, 40609), (30, 40633), (31, 40636), (32, 40642), (33, 40690),

Gene: Brylie_60 Start: 40073, Stop: 40477, Start Num: 3
Candidate Starts for Brylie_60:
(Start: 3 @40073 has 11 MA's), (4, 40082), (5, 40085), (6, 40106), (Start: 9 @40133 has 3 MA's), (19, 40211), (27, 40349), (28, 40355), (29, 40409), (30, 40424), (31, 40427), (32, 40433),

Gene: CherryTomatoes_190 Start: 134141, Stop: 134506, Start Num: 13
Candidate Starts for CherryTomatoes_190:
(7, 134102), (Start: 13 @134141 has 3 MA's), (17, 134186), (21, 134216), (27, 134330),

Gene: Chop_61 Start: 40844, Stop: 41248, Start Num: 3
Candidate Starts for Chop_61:
(Start: 3 @40844 has 11 MA's), (4, 40853), (5, 40856), (6, 40877), (Start: 9 @40904 has 3 MA's), (19, 40982), (21, 41003), (27, 41120), (28, 41126), (29, 41180), (30, 41195), (31, 41198), (32, 41204),

Gene: DelRio_61 Start: 41254, Stop: 41664, Start Num: 3
Candidate Starts for DelRio_61:
(Start: 3 @41254 has 11 MA's), (5, 41266), (6, 41287), (11, 41326), (18, 41386), (22, 41434), (23, 41455), (26, 41488), (27, 41524), (28, 41530), (29, 41584), (30, 41611), (32, 41620),

Gene: Francois_60 Start: 40340, Stop: 40705, Start Num: 8
Candidate Starts for Francois_60:
(Start: 8 @40340 has 1 MA's), (16, 40403), (18, 40427), (21, 40454), (23, 40499), (27, 40568), (28, 40574), (29, 40628), (30, 40652), (31, 40655), (32, 40661),

Gene: GrandSlam_61 Start: 40844, Stop: 41248, Start Num: 3
Candidate Starts for GrandSlam_61:
(Start: 3 @40844 has 11 MA's), (4, 40853), (5, 40856), (6, 40877), (Start: 9 @40904 has 3 MA's), (19, 40982), (21, 41003), (27, 41120), (28, 41126), (29, 41180), (30, 41195), (31, 41198), (32, 41204),

Gene: Hamood_61 Start: 40844, Stop: 41248, Start Num: 3
Candidate Starts for Hamood_61:
(Start: 3 @40844 has 11 MA's), (4, 40853), (5, 40856), (6, 40877), (Start: 9 @40904 has 3 MA's), (19, 40982), (21, 41003), (27, 41120), (28, 41126), (29, 41180), (30, 41195), (31, 41198), (32, 41204),

Gene: Heinz_39 Start: 26794, Stop: 27120, Start Num: 11
Candidate Starts for Heinz_39:
(1, 26335), (2, 26362), (11, 26794), (Start: 12 @26797 has 1 MA's), (Start: 15 @26803 has 1 MA's), (20, 26863), (22, 26899), (24, 26926), (25, 26938), (32, 27079),

Gene: Hibiscus_39 Start: 26746, Stop: 27069, Start Num: 12
Candidate Starts for Hibiscus_39:
(1, 26284), (2, 26311), (11, 26743), (Start: 12 @26746 has 1 MA's), (Start: 15 @26752 has 1 MA's), (20, 26812), (22, 26848), (24, 26875), (25, 26887), (32, 27028),

Gene: Mulch_60 Start: 40073, Stop: 40477, Start Num: 3
Candidate Starts for Mulch_60:
(Start: 3 @40073 has 11 MA's), (4, 40082), (5, 40085), (6, 40106), (Start: 9 @40133 has 3 MA's), (19, 40211), (27, 40349), (28, 40355), (29, 40409), (30, 40424), (31, 40427), (32, 40433),

Gene: Nadeem_60 Start: 40061, Stop: 40465, Start Num: 3
Candidate Starts for Nadeem_60:
(Start: 3 @40061 has 11 MA's), (4, 40070), (5, 40073), (6, 40094), (Start: 9 @40121 has 3 MA's), (19, 40199), (27, 40337), (28, 40343), (29, 40397), (30, 40412), (31, 40415), (32, 40421),

Gene: NancyRae_59 Start: 40071, Stop: 40415, Start Num: 9
Candidate Starts for NancyRae_59:
(Start: 9 @40071 has 3 MA's), (19, 40149), (27, 40287), (28, 40293), (29, 40347), (30, 40362), (31, 40365), (32, 40371),

Gene: Parada_60 Start: 40073, Stop: 40477, Start Num: 3
Candidate Starts for Parada_60:
(Start: 3 @40073 has 11 MA's), (4, 40082), (5, 40085), (6, 40106), (Start: 9 @40133 has 3 MA's), (19, 40211), (27, 40349), (28, 40355), (29, 40409), (30, 40424), (31, 40427), (32, 40433),

Gene: Pimento_62 Start: 39983, Stop: 40393, Start Num: 3
Candidate Starts for Pimento_62:
(Start: 3 @39983 has 11 MA's), (4, 39992), (5, 39995), (6, 40016), (11, 40055), (18, 40115), (22, 40163), (23, 40184), (26, 40217), (27, 40253), (28, 40259), (29, 40313), (30, 40340), (32, 40349),

Gene: Pupper_188 Start: 134003, Stop: 134368, Start Num: 13
Candidate Starts for Pupper_188:
(7, 133964), (Start: 13 @134003 has 3 MA's), (17, 134048), (21, 134078), (27, 134192),

Gene: SCentae_187 Start: 134195, Stop: 134560, Start Num: 13
Candidate Starts for SCentae_187:
(7, 134156), (Start: 13 @134195 has 3 MA's), (17, 134240), (21, 134270), (27, 134384),

Gene: TinyDot_42 Start: 29467, Stop: 29790, Start Num: 15
Candidate Starts for TinyDot_42:
(10, 29455), (14, 29464), (Start: 15 @29467 has 1 MA's), (20, 29527), (27, 29653), (30, 29737),

Gene: WheatThin_59 Start: 40061, Stop: 40465, Start Num: 3

Candidate Starts for WheatThin_59:
(Start: 3 @40061 has 11 MA's), (4, 40070), (5, 40073), (6, 40094), (Start: 9 @40121 has 3 MA's), (19, 40199), (27, 40337), (28, 40343), (29, 40397), (30, 40412), (31, 40415), (32, 40421),