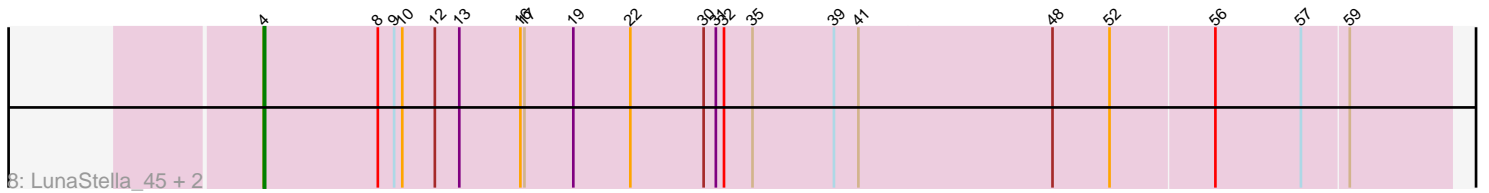
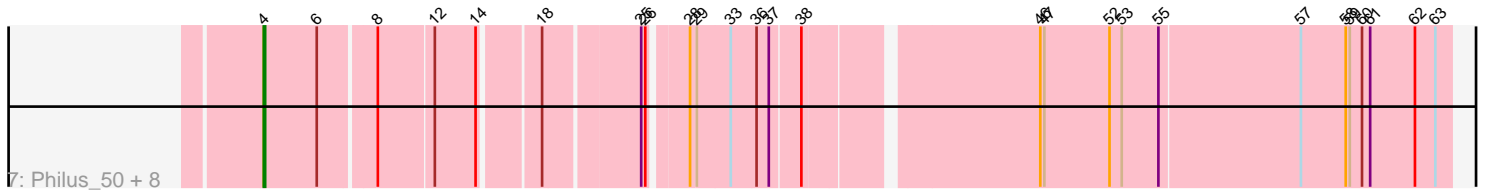
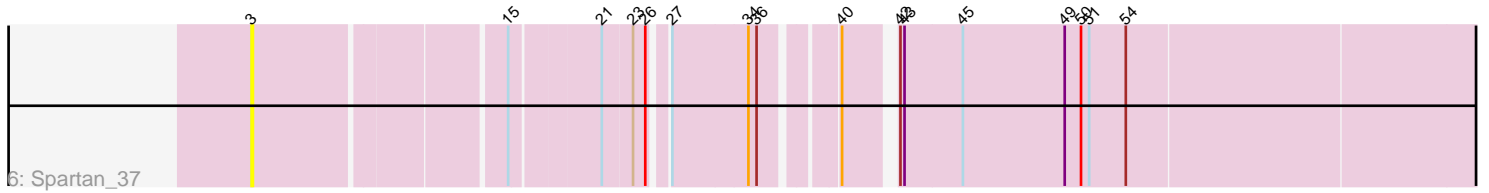
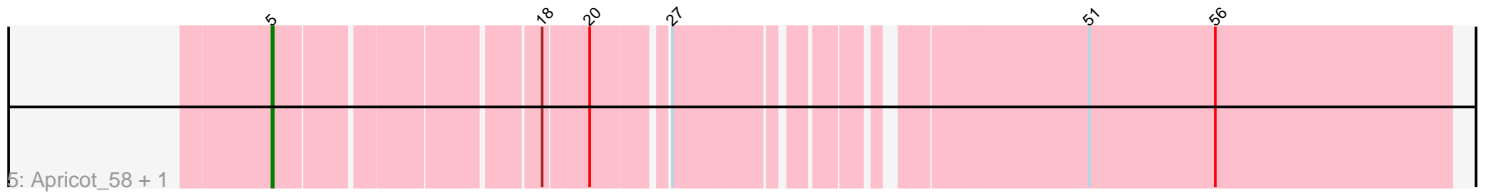
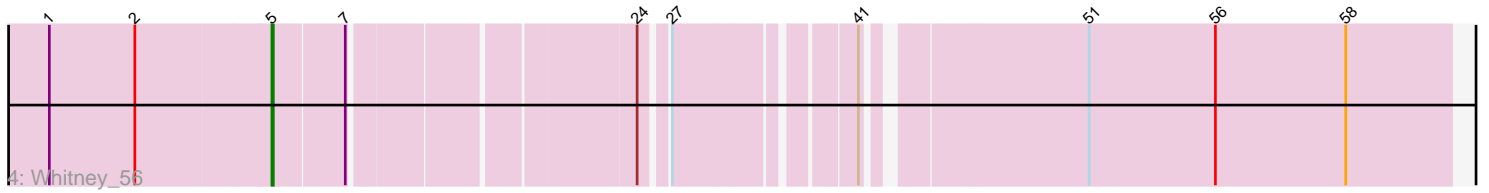
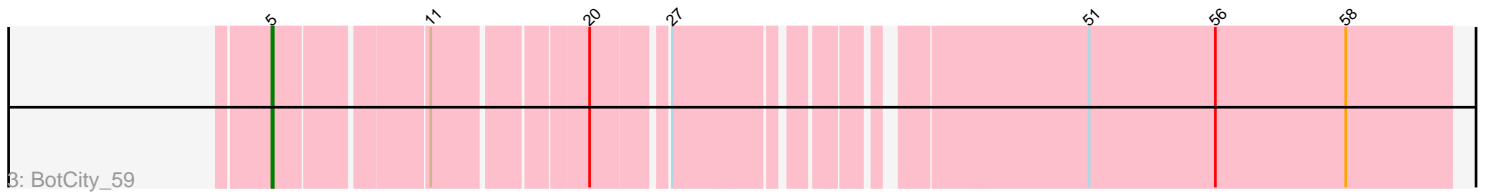
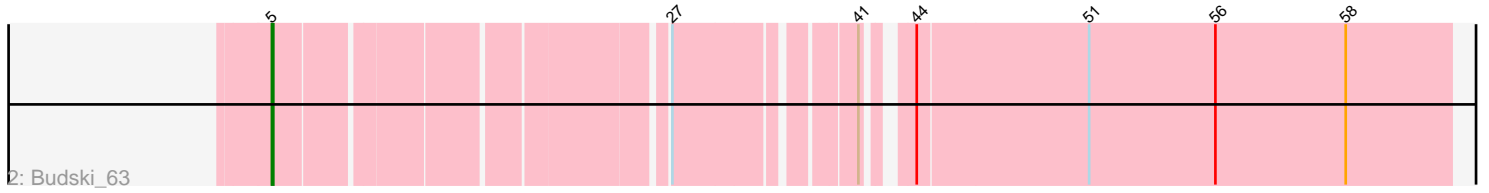
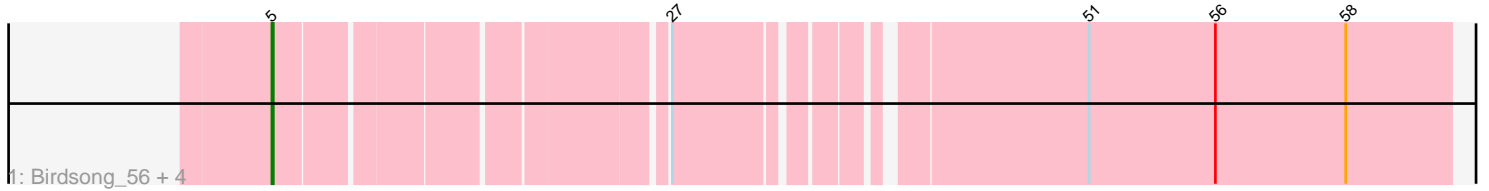


Pham 295052



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 295052 Report

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

Pham number 295052 has 23 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Birdsong_56, Asapag_56, Kenna_56, Lutum_61, Getalong_59
- Track 2 : Budski_63
- Track 3 : BotCity_59
- Track 4 : Whitney_56
- Track 5 : Apricot_58, Crater_58
- Track 6 : Spartan_37
- Track 7 : Philus_50, Saal_49, BobaPhett_49, Mattes_50, Gorge_51, ByChance_37, James_50, SwagPiggett_52, DRBy19_49
- Track 8 : LunaStella_45, MooMoo_44, TChen_47

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

The start number called the most often in the published annotations is 4, it was called in 12 of the 22 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BobaPhett_49, ByChance_37, DRBy19_49, Gorge_51, James_50, LunaStella_45, Mattes_50, MooMoo_44, Philus_50, Saal_49, SwagPiggett_52, TChen_47,

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

-

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

- Apricot_58, Asapag_56, Birdsong_56, BotCity_59, Budski_63, Crater_58, Getalong_59, Kenna_56, Lutum_61, Spartan_37, Whitney_56,

Summary by start number:

Start 3:

- Found in 1 of 23 (4.3%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Spartan_37 (ES),

Start 4:

- Found in 12 of 23 (52.2%) of genes in pham
- Manual Annotations of this start: 12 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BobaPhett_49 (F1), ByChance_37 (F1), DRBy19_49 (F1), Gorge_51 (F1), James_50 (F1), LunaStella_45 (F4), Mattes_50 (F1), MooMoo_44 (singleton), Philus_50 (F1), Saal_49 (F1), SwagPiggett_52 (F1), TChen_47 (F4),

Start 5:

- Found in 10 of 23 (43.5%) of genes in pham
- Manual Annotations of this start: 10 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Apricot_58 (DN3), Asapag_56 (DN1), Birdsong_56 (DN), BotCity_59 (DN), Budski_63 (DN), Crater_58 (DN3), Getalong_59 (DN1), Kenna_56 (DN1), Lutum_61 (DN1), Whitney_56 (DN1),

Summary by clusters:

There are 7 clusters represented in this pham: DN, F1, singleton, F4, DN1, DN3, ES,

Info for manual annotations of cluster DN:

- Start number 5 was manually annotated 3 times for cluster DN.

Info for manual annotations of cluster DN1:

- Start number 5 was manually annotated 5 times for cluster DN1.

Info for manual annotations of cluster DN3:

- Start number 5 was manually annotated 2 times for cluster DN3.

Info for manual annotations of cluster F1:

- Start number 4 was manually annotated 9 times for cluster F1.

Info for manual annotations of cluster F4:

- Start number 4 was manually annotated 2 times for cluster F4.

Gene Information:

Gene: Apricot_58 Start: 37168, Stop: 37944, Start Num: 5

Candidate Starts for Apricot_58:

(Start: 5 @37168 has 10 MA's), (18, 37342), (20, 37372), (27, 37420), (51, 37678), (56, 37771),

Gene: Asapag_56 Start: 36674, Stop: 37453, Start Num: 5

Candidate Starts for Asapag_56:

(Start: 5 @36674 has 10 MA's), (27, 36929), (51, 37187), (56, 37280), (58, 37376),

Gene: Birdsong_56 Start: 36895, Stop: 37674, Start Num: 5

Candidate Starts for Birdsong_56:

(Start: 5 @36895 has 10 MA's), (27, 37150), (51, 37408), (56, 37501), (58, 37597),

Gene: BobaPhett_49 Start: 36795, Stop: 37598, Start Num: 4

Candidate Starts for BobaPhett_49:

(Start: 4 @36795 has 12 MA's), (6, 36834), (8, 36870), (12, 36909), (14, 36939), (18, 36978), (25, 37041), (26, 37044), (28, 37068), (29, 37071), (33, 37095), (36, 37113), (37, 37122), (38, 37143), (46, 37299), (47, 37302), (52, 37350), (53, 37359), (55, 37386), (57, 37488), (58, 37521), (59, 37524), (60, 37533), (61, 37539), (62, 37572), (63, 37587),

Gene: BotCity_59 Start: 38122, Stop: 38898, Start Num: 5

Candidate Starts for BotCity_59:

(Start: 5 @38122 has 10 MA's), (11, 38224), (20, 38326), (27, 38374), (51, 38632), (56, 38725), (58, 38821),

Gene: Budski_63 Start: 39082, Stop: 39861, Start Num: 5

Candidate Starts for Budski_63:

(Start: 5 @39082 has 10 MA's), (27, 39337), (41, 39451), (44, 39472), (51, 39595), (56, 39688), (58, 39784),

Gene: ByChance_37 Start: 29879, Stop: 30682, Start Num: 4

Candidate Starts for ByChance_37:

(Start: 4 @29879 has 12 MA's), (6, 29918), (8, 29954), (12, 29993), (14, 30023), (18, 30062), (25, 30125), (26, 30128), (28, 30152), (29, 30155), (33, 30179), (36, 30197), (37, 30206), (38, 30227), (46, 30383), (47, 30386), (52, 30434), (53, 30443), (55, 30470), (57, 30572), (58, 30605), (59, 30608), (60, 30617), (61, 30623), (62, 30656), (63, 30671),

Gene: Crater_58 Start: 37563, Stop: 38339, Start Num: 5

Candidate Starts for Crater_58:

(Start: 5 @37563 has 10 MA's), (18, 37737), (20, 37767), (27, 37815), (51, 38073), (56, 38166),

Gene: DRBy19_49 Start: 35582, Stop: 36385, Start Num: 4

Candidate Starts for DRBy19_49:

(Start: 4 @35582 has 12 MA's), (6, 35621), (8, 35657), (12, 35696), (14, 35726), (18, 35765), (25, 35828), (26, 35831), (28, 35855), (29, 35858), (33, 35882), (36, 35900), (37, 35909), (38, 35930), (46, 36086), (47, 36089), (52, 36137), (53, 36146), (55, 36173), (57, 36275), (58, 36308), (59, 36311), (60, 36320), (61, 36326), (62, 36359), (63, 36374),

Gene: Getalong_59 Start: 38926, Stop: 39705, Start Num: 5

Candidate Starts for Getalong_59:

(Start: 5 @38926 has 10 MA's), (27, 39181), (51, 39439), (56, 39532), (58, 39628),

Gene: Gorge_51 Start: 35716, Stop: 36519, Start Num: 4

Candidate Starts for Gorge_51:

(Start: 4 @35716 has 12 MA's), (6, 35755), (8, 35791), (12, 35830), (14, 35860), (18, 35899), (25, 35962), (26, 35965), (28, 35989), (29, 35992), (33, 36016), (36, 36034), (37, 36043), (38, 36064), (46, 36220), (47, 36223), (52, 36271), (53, 36280), (55, 36307), (57, 36409), (58, 36442), (59, 36445), (60, 36454), (61, 36460), (62, 36493), (63, 36508),

Gene: James_50 Start: 35673, Stop: 36476, Start Num: 4

Candidate Starts for James_50:

(Start: 4 @35673 has 12 MA's), (6, 35712), (8, 35748), (12, 35787), (14, 35817), (18, 35856), (25, 35919), (26, 35922), (28, 35946), (29, 35949), (33, 35973), (36, 35991), (37, 36000), (38, 36021), (46, 36177), (47, 36180), (52, 36228), (53, 36237), (55, 36264), (57, 36366), (58, 36399), (59, 36402), (60, 36411), (61, 36417), (62, 36450), (63, 36465),

Gene: Kenna_56 Start: 37127, Stop: 37906, Start Num: 5

Candidate Starts for Kenna_56:

(Start: 5 @37127 has 10 MA's), (27, 37382), (51, 37640), (56, 37733), (58, 37829),

Gene: LunaStella_45 Start: 34115, Stop: 34981, Start Num: 4

Candidate Starts for LunaStella_45:

(Start: 4 @34115 has 12 MA's), (8, 34199), (9, 34211), (10, 34217), (12, 34241), (13, 34259), (16, 34304), (17, 34307), (19, 34343), (22, 34385), (30, 34439), (31, 34448), (32, 34454), (35, 34475), (39, 34535), (41, 34553), (48, 34694), (52, 34736), (56, 34811), (57, 34874), (59, 34907),

Gene: Lutum_61 Start: 38291, Stop: 39070, Start Num: 5

Candidate Starts for Lutum_61:

(Start: 5 @38291 has 10 MA's), (27, 38546), (51, 38804), (56, 38897), (58, 38993),

Gene: Mattes_50 Start: 35673, Stop: 36476, Start Num: 4

Candidate Starts for Mattes_50:

(Start: 4 @35673 has 12 MA's), (6, 35712), (8, 35748), (12, 35787), (14, 35817), (18, 35856), (25, 35919), (26, 35922), (28, 35946), (29, 35949), (33, 35973), (36, 35991), (37, 36000), (38, 36021), (46, 36177), (47, 36180), (52, 36228), (53, 36237), (55, 36264), (57, 36366), (58, 36399), (59, 36402), (60, 36411), (61, 36417), (62, 36450), (63, 36465),

Gene: MooMoo_44 Start: 34391, Stop: 35257, Start Num: 4

Candidate Starts for MooMoo_44:

(Start: 4 @34391 has 12 MA's), (8, 34475), (9, 34487), (10, 34493), (12, 34517), (13, 34535), (16, 34580), (17, 34583), (19, 34619), (22, 34661), (30, 34715), (31, 34724), (32, 34730), (35, 34751), (39, 34811), (41, 34829), (48, 34970), (52, 35012), (56, 35087), (57, 35150), (59, 35183),

Gene: Philus_50 Start: 35558, Stop: 36361, Start Num: 4

Candidate Starts for Philus_50:

(Start: 4 @35558 has 12 MA's), (6, 35597), (8, 35633), (12, 35672), (14, 35702), (18, 35741), (25, 35804), (26, 35807), (28, 35831), (29, 35834), (33, 35858), (36, 35876), (37, 35885), (38, 35906), (46, 36062), (47, 36065), (52, 36113), (53, 36122), (55, 36149), (57, 36251), (58, 36284), (59, 36287), (60, 36296), (61, 36302), (62, 36335), (63, 36350),

Gene: Saal_49 Start: 35536, Stop: 36339, Start Num: 4

Candidate Starts for Saal_49:

(Start: 4 @35536 has 12 MA's), (6, 35575), (8, 35611), (12, 35650), (14, 35680), (18, 35719), (25, 35782), (26, 35785), (28, 35809), (29, 35812), (33, 35836), (36, 35854), (37, 35863), (38, 35884), (46, 36040), (47, 36043), (52, 36091), (53, 36100), (55, 36127), (57, 36229), (58, 36262), (59, 36265), (60, 36274), (61, 36280), (62, 36313), (63, 36328),

Gene: Spartan_37 Start: 33069, Stop: 33911, Start Num: 3

Candidate Starts for Spartan_37:

(3, 33069), (15, 33240), (21, 33300), (23, 33321), (26, 33330), (27, 33339), (34, 33393), (36, 33399), (40, 33444), (42, 33474), (43, 33477), (45, 33519), (49, 33594), (50, 33606), (51, 33612), (54, 33639),

Gene: SwagPigglett_52 Start: 36591, Stop: 37367, Start Num: 4

Candidate Starts for SwagPigglett_52:

(Start: 4 @36591 has 12 MA's), (6, 36630), (8, 36666), (12, 36705), (14, 36735), (18, 36774), (25, 36810), (26, 36813), (28, 36837), (29, 36840), (33, 36864), (36, 36882), (37, 36891), (38, 36912), (46, 37068), (47, 37071), (52, 37119), (53, 37128), (55, 37155), (57, 37257), (58, 37290), (59, 37293), (60, 37302), (61, 37308), (62, 37341), (63, 37356),

Gene: TChen_47 Start: 36066, Stop: 36932, Start Num: 4

Candidate Starts for TChen_47:

(Start: 4 @36066 has 12 MA's), (8, 36150), (9, 36162), (10, 36168), (12, 36192), (13, 36210), (16, 36255), (17, 36258), (19, 36294), (22, 36336), (30, 36390), (31, 36399), (32, 36405), (35, 36426), (39, 36486), (41, 36504), (48, 36645), (52, 36687), (56, 36762), (57, 36825), (59, 36858),

Gene: Whitney_56 Start: 38733, Stop: 39512, Start Num: 5

Candidate Starts for Whitney_56:

(1, 38580), (2, 38643), (Start: 5 @38733 has 10 MA's), (7, 38784), (24, 38973), (27, 38988), (41, 39102), (51, 39246), (56, 39339), (58, 39435),