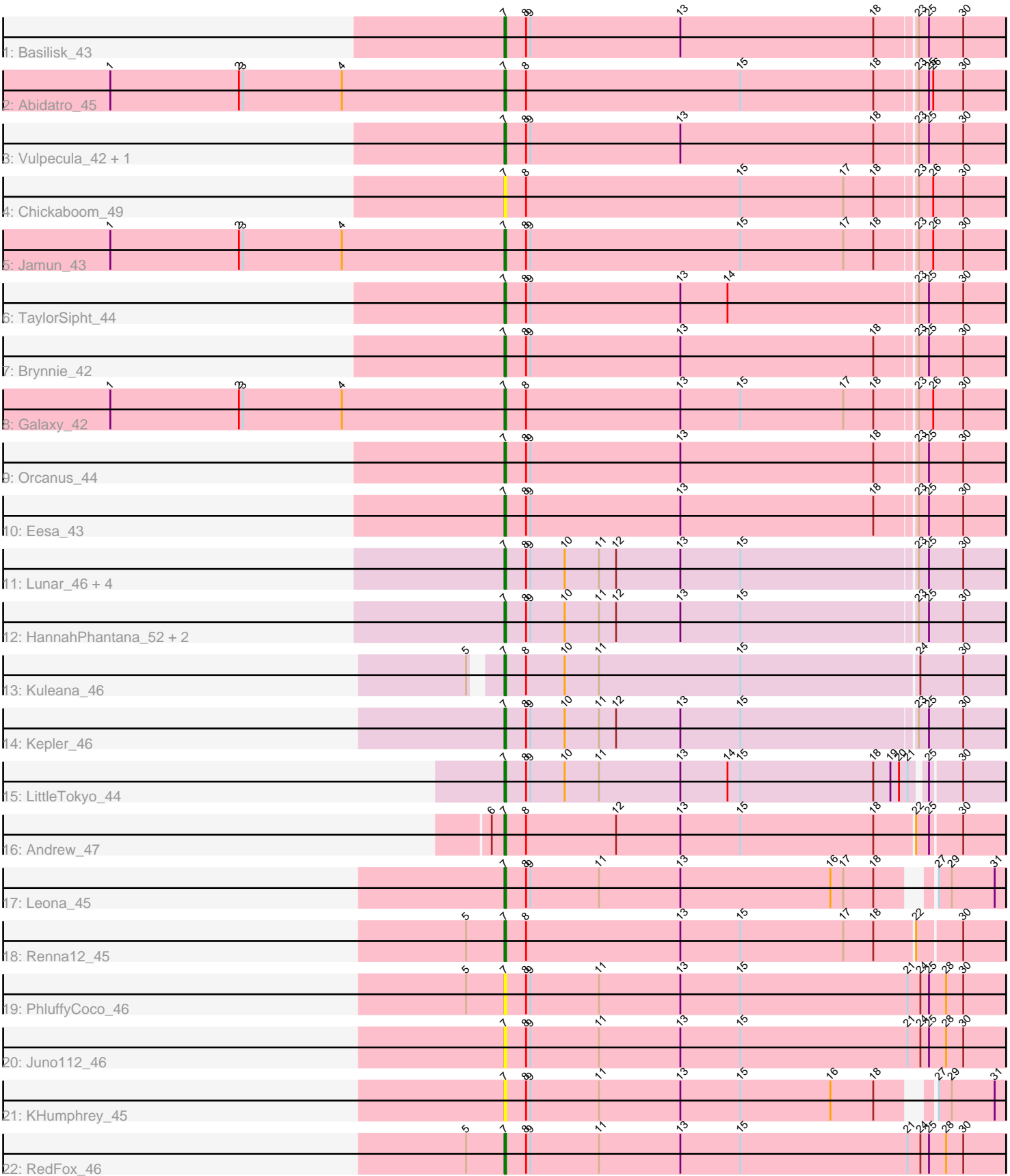


Zoomed Pham 3471



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 3471 Report

This analysis was run 04/28/24 on database version 559.

Pham number 3471 has 29 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Basilisk_43
- Track 2 : Abidatro_45
- Track 3 : Vulpecula_42, Ruchi_42
- Track 4 : Chickaboom_49
- Track 5 : Jamun_43
- Track 6 : TaylorSipht_44
- Track 7 : Brynnie_42
- Track 8 : Galaxy_42
- Track 9 : Orcanus_44
- Track 10 : Eesa_43
- Track 11 : Lunar_46, Daob_46, Coral_44, Cote_46, Melons_46
- Track 12 : HannahPhantana_52, Amelia_44, Polka_44
- Track 13 : Kuleana_46
- Track 14 : Kepler_46
- Track 15 : LittleTokyo_44
- Track 16 : Andrew_47
- Track 17 : Leona_45
- Track 18 : Renna12_45
- Track 19 : PhluffyCoco_46
- Track 20 : Juno112_46
- Track 21 : KHumphrey_45
- Track 22 : RedFox_46

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

The start number called the most often in the published annotations is 7, it was called in 24 of the 24 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• Abidatro_45, Amelia_44, Andrew_47, Basilisk_43, Brynnie_42, Chickaboom_49, Coral_44, Cote_46, Daob_46, Eesa_43, Galaxy_42, HannahPhantana_52, Jamun_43, Juno112_46, KHumphrey_45, Kepler_46, Kuleana_46, Leona_45, LittleTokyo_44, Lunar_46, Melons_46, Orcanus_44, PhluffyCoco_46, Polka_44, RedFox_46, Renna12_45, Ruchi_42, TaylorSipht_44, Vulpecula_42,

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

-

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

-

Summary by start number:

Start 7:

- Found in 29 of 29 (100.0%) of genes in pham
- Manual Annotations of this start: 24 of 24
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Abidatro_45 (AS1), Amelia_44 (AS2), Andrew_47 (AS3), Basilisk_43 (AS1), Brynnie_42 (AS1), Chickaboom_49 (AS1), Coral_44 (AS2), Cote_46 (AS2), Daob_46 (AS2), Eesa_43 (AS1), Galaxy_42 (AS1), HannahPhantana_52 (AS2), Jamun_43 (AS1), Juno112_46 (AS3), KHumphrey_45 (AS3), Kepler_46 (AS2), Kuleana_46 (AS2), Leona_45 (AS3), LittleTokyo_44 (AS2), Lunar_46 (AS2), Melons_46 (AS2), Orcanus_44 (AS1), PhluffyCoco_46 (AS3), Polka_44 (AS2), RedFox_46 (AS3), Renna12_45 (AS3), Ruchi_42 (AS1), TaylorSipht_44 (AS1), Vulpecula_42 (AS1),

Summary by clusters:

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

Info for manual annotations of cluster AS1:

- Start number 7 was manually annotated 10 times for cluster AS1.

Info for manual annotations of cluster AS2:

- Start number 7 was manually annotated 10 times for cluster AS2.

Info for manual annotations of cluster AS3:

- Start number 7 was manually annotated 4 times for cluster AS3.

Gene Information:

Gene: Abidatro_45 Start: 29469, Stop: 30263, Start Num: 7

Candidate Starts for Abidatro_45:

(1, 29193), (2, 29283), (3, 29286), (4, 29355), (Start: 7 @29469 has 24 MA's), (8, 29484), (15, 29634), (18, 29727), (23, 29754), (25, 29760), (26, 29763), (30, 29784), (33, 29850), (34, 29856), (37, 29889), (39, 29913), (41, 29973), (43, 30192),

Gene: Amelia_44 Start: 27749, Stop: 28534, Start Num: 7

Candidate Starts for Amelia_44:

(Start: 7 @27749 has 24 MA's), (8, 27764), (9, 27767), (10, 27791), (11, 27815), (12, 27827), (13, 27872), (15, 27914), (23, 28034), (25, 28040), (30, 28064), (36, 28139), (37, 28169), (39, 28193), (43, 28475),

Gene: Andrew_47 Start: 28685, Stop: 29464, Start Num: 7

Candidate Starts for Andrew_47:

(6, 28676), (Start: 7 @28685 has 24 MA's), (8, 28700), (12, 28763), (13, 28808), (15, 28850), (18, 28943), (22, 28970), (25, 28979), (30, 29000), (33, 29066), (34, 29072), (37, 29105), (38, 29117), (43, 29405),

Gene: Basilisk_43 Start: 28639, Stop: 29460, Start Num: 7

Candidate Starts for Basilisk_43:

(Start: 7 @28639 has 24 MA's), (8, 28654), (9, 28657), (13, 28762), (18, 28897), (23, 28924), (25, 28930), (30, 28954), (36, 29029), (37, 29059), (39, 29083), (42, 29293), (47, 29398), (49, 29407), (51, 29416),

Gene: Brynnie_42 Start: 28517, Stop: 29317, Start Num: 7

Candidate Starts for Brynnie_42:

(Start: 7 @28517 has 24 MA's), (8, 28532), (9, 28535), (13, 28640), (18, 28775), (23, 28802), (25, 28808), (30, 28832), (36, 28907), (37, 28937), (39, 28961), (42, 29171), (45, 29237), (48, 29267), (52, 29288),

Gene: Chickaboom_49 Start: 29238, Stop: 30044, Start Num: 7

Candidate Starts for Chickaboom_49:

(Start: 7 @29238 has 24 MA's), (8, 29253), (15, 29403), (17, 29475), (18, 29496), (23, 29523), (26, 29532), (30, 29553), (32, 29592), (33, 29619), (34, 29625), (37, 29658), (39, 29682), (41, 29742), (45, 29967), (48, 29997),

Gene: Coral_44 Start: 27597, Stop: 28406, Start Num: 7

Candidate Starts for Coral_44:

(Start: 7 @27597 has 24 MA's), (8, 27612), (9, 27615), (10, 27639), (11, 27663), (12, 27675), (13, 27720), (15, 27762), (23, 27882), (25, 27888), (30, 27912), (36, 27987), (37, 28017), (39, 28041), (43, 28323), (48, 28359),

Gene: Cote_46 Start: 28074, Stop: 28883, Start Num: 7

Candidate Starts for Cote_46:

(Start: 7 @28074 has 24 MA's), (8, 28089), (9, 28092), (10, 28116), (11, 28140), (12, 28152), (13, 28197), (15, 28239), (23, 28359), (25, 28365), (30, 28389), (36, 28464), (37, 28494), (39, 28518), (43, 28800), (48, 28836),

Gene: Daob_46 Start: 28082, Stop: 28891, Start Num: 7

Candidate Starts for Daob_46:

(Start: 7 @28082 has 24 MA's), (8, 28097), (9, 28100), (10, 28124), (11, 28148), (12, 28160), (13, 28205), (15, 28247), (23, 28367), (25, 28373), (30, 28397), (36, 28472), (37, 28502), (39, 28526), (43, 28808), (48, 28844),

Gene: Eesa_43 Start: 30117, Stop: 30914, Start Num: 7

Candidate Starts for Eesa_43:

(Start: 7 @30117 has 24 MA's), (8, 30132), (9, 30135), (13, 30240), (18, 30375), (23, 30402), (25, 30408), (30, 30432), (36, 30507), (37, 30537), (39, 30561), (46, 30867),

Gene: Galaxy_42 Start: 27889, Stop: 28683, Start Num: 7

Candidate Starts for Galaxy_42:

(1, 27613), (2, 27703), (3, 27706), (4, 27775), (Start: 7 @27889 has 24 MA's), (8, 27904), (13, 28012), (15, 28054), (17, 28126), (18, 28147), (23, 28174), (26, 28183), (30, 28204), (33, 28270), (34, 28276), (37, 28309), (39, 28333), (41, 28393), (43, 28612),

Gene: HannahPhantana_52 Start: 27744, Stop: 28529, Start Num: 7

Candidate Starts for HannahPhantana_52:

(Start: 7 @27744 has 24 MA's), (8, 27759), (9, 27762), (10, 27786), (11, 27810), (12, 27822), (13, 27867), (15, 27909), (23, 28029), (25, 28035), (30, 28059), (36, 28134), (37, 28164), (39, 28188), (43, 28470),

Gene: Jamun_43 Start: 29398, Stop: 30198, Start Num: 7

Candidate Starts for Jamun_43:

(1, 29122), (2, 29212), (3, 29215), (4, 29284), (Start: 7 @29398 has 24 MA's), (8, 29413), (9, 29416), (15, 29563), (17, 29635), (18, 29656), (23, 29683), (26, 29692), (30, 29713), (33, 29779), (34, 29785), (37, 29818), (39, 29842), (41, 29902), (45, 30127),

Gene: Juno112_46 Start: 28810, Stop: 29589, Start Num: 7

Candidate Starts for Juno112_46:

(Start: 7 @28810 has 24 MA's), (8, 28825), (9, 28828), (11, 28876), (13, 28933), (15, 28975), (21, 29092), (24, 29101), (25, 29107), (28, 29119), (30, 29131), (35, 29206), (37, 29236), (38, 29248), (40, 29260), (43, 29527),

Gene: KHumphrey_45 Start: 28707, Stop: 29477, Start Num: 7

Candidate Starts for KHumphrey_45:

(Start: 7 @28707 has 24 MA's), (8, 28722), (9, 28725), (11, 28773), (13, 28830), (15, 28872), (16, 28935), (18, 28965), (27, 28992), (29, 29001), (31, 29031), (33, 29076), (34, 29082), (37, 29115), (43, 29415),

Gene: Kepler_46 Start: 28492, Stop: 29301, Start Num: 7

Candidate Starts for Kepler_46:

(Start: 7 @28492 has 24 MA's), (8, 28507), (9, 28510), (10, 28534), (11, 28558), (12, 28570), (13, 28615), (15, 28657), (23, 28777), (25, 28783), (30, 28807), (36, 28882), (37, 28912), (39, 28936), (43, 29218), (48, 29254),

Gene: Kuleana_46 Start: 28067, Stop: 28864, Start Num: 7

Candidate Starts for Kuleana_46:

(5, 28052), (Start: 7 @28067 has 24 MA's), (8, 28082), (10, 28109), (11, 28133), (15, 28232), (24, 28355), (30, 28385), (32, 28424), (33, 28451), (37, 28490), (39, 28514), (43, 28796), (44, 28799),

Gene: Leona_45 Start: 28887, Stop: 29669, Start Num: 7

Candidate Starts for Leona_45:

(Start: 7 @28887 has 24 MA's), (8, 28902), (9, 28905), (11, 28953), (13, 29010), (16, 29115), (17, 29124), (18, 29145), (27, 29172), (29, 29181), (31, 29211), (33, 29256), (34, 29262), (37, 29295), (43, 29595),

Gene: LittleTokyo_44 Start: 27580, Stop: 28368, Start Num: 7

Candidate Starts for LittleTokyo_44:

(Start: 7 @27580 has 24 MA's), (8, 27595), (9, 27598), (10, 27622), (11, 27646), (13, 27703), (14, 27736), (15, 27745), (18, 27838), (19, 27850), (20, 27856), (21, 27862), (25, 27871), (30, 27892), (33, 27958), (37, 27997), (40, 28021), (43, 28288), (50, 28345),

Gene: Lunar_46 Start: 28408, Stop: 29217, Start Num: 7

Candidate Starts for Lunar_46:

(Start: 7 @28408 has 24 MA's), (8, 28423), (9, 28426), (10, 28450), (11, 28474), (12, 28486), (13, 28531), (15, 28573), (23, 28693), (25, 28699), (30, 28723), (36, 28798), (37, 28828), (39, 28852), (43, 29134), (48, 29170),

Gene: Melons_46 Start: 28222, Stop: 29031, Start Num: 7

Candidate Starts for Melons_46:

(Start: 7 @28222 has 24 MA's), (8, 28237), (9, 28240), (10, 28264), (11, 28288), (12, 28300), (13, 28345), (15, 28387), (23, 28507), (25, 28513), (30, 28537), (36, 28612), (37, 28642), (39, 28666), (43, 28948), (48, 28984),

Gene: Orcanus_44 Start: 29751, Stop: 30572, Start Num: 7

Candidate Starts for Orcanus_44:

(Start: 7 @29751 has 24 MA's), (8, 29766), (9, 29769), (13, 29874), (18, 30009), (23, 30036), (25, 30042), (30, 30066), (36, 30141), (37, 30171), (39, 30195), (47, 30510), (51, 30528),

Gene: PhluffyCoco_46 Start: 28908, Stop: 29687, Start Num: 7

Candidate Starts for PhluffyCoco_46:

(5, 28881), (Start: 7 @28908 has 24 MA's), (8, 28923), (9, 28926), (11, 28974), (13, 29031), (15, 29073), (21, 29190), (24, 29199), (25, 29205), (28, 29217), (30, 29229), (35, 29304), (37, 29334), (40, 29358), (43, 29625),

Gene: Polka_44 Start: 27598, Stop: 28383, Start Num: 7

Candidate Starts for Polka_44:

(Start: 7 @27598 has 24 MA's), (8, 27613), (9, 27616), (10, 27640), (11, 27664), (12, 27676), (13, 27721), (15, 27763), (23, 27883), (25, 27889), (30, 27913), (36, 27988), (37, 28018), (39, 28042), (43, 28324),

Gene: RedFox_46 Start: 28907, Stop: 29686, Start Num: 7

Candidate Starts for RedFox_46:

(5, 28880), (Start: 7 @28907 has 24 MA's), (8, 28922), (9, 28925), (11, 28973), (13, 29030), (15, 29072), (21, 29189), (24, 29198), (25, 29204), (28, 29216), (30, 29228), (35, 29303), (37, 29333), (38, 29345), (40, 29357), (43, 29624),

Gene: Renna12_45 Start: 28764, Stop: 29543, Start Num: 7

Candidate Starts for Renna12_45:

(5, 28737), (Start: 7 @28764 has 24 MA's), (8, 28779), (13, 28887), (15, 28929), (17, 29001), (18, 29022), (22, 29049), (30, 29079), (33, 29145), (34, 29151), (37, 29184), (38, 29196), (43, 29484),

Gene: Ruchi_42 Start: 28585, Stop: 29382, Start Num: 7

Candidate Starts for Ruchi_42:

(Start: 7 @28585 has 24 MA's), (8, 28600), (9, 28603), (13, 28708), (18, 28843), (23, 28870), (25, 28876), (30, 28900), (36, 28975), (37, 29005), (39, 29029), (42, 29239), (45, 29305), (48, 29335),

Gene: TaylorSipht_44 Start: 29156, Stop: 29947, Start Num: 7

Candidate Starts for TaylorSipht_44:

(Start: 7 @29156 has 24 MA's), (8, 29171), (9, 29174), (13, 29279), (14, 29312), (23, 29441), (25, 29447), (30, 29471), (36, 29546), (37, 29576), (39, 29600), (42, 29819), (43, 29876),

Gene: Vulpecula_42 Start: 28262, Stop: 29059, Start Num: 7

Candidate Starts for Vulpecula_42:

(Start: 7 @28262 has 24 MA's), (8, 28277), (9, 28280), (13, 28385), (18, 28520), (23, 28547), (25, 28553), (30, 28577), (36, 28652), (37, 28682), (39, 28706), (42, 28916), (45, 28982), (48, 29012),