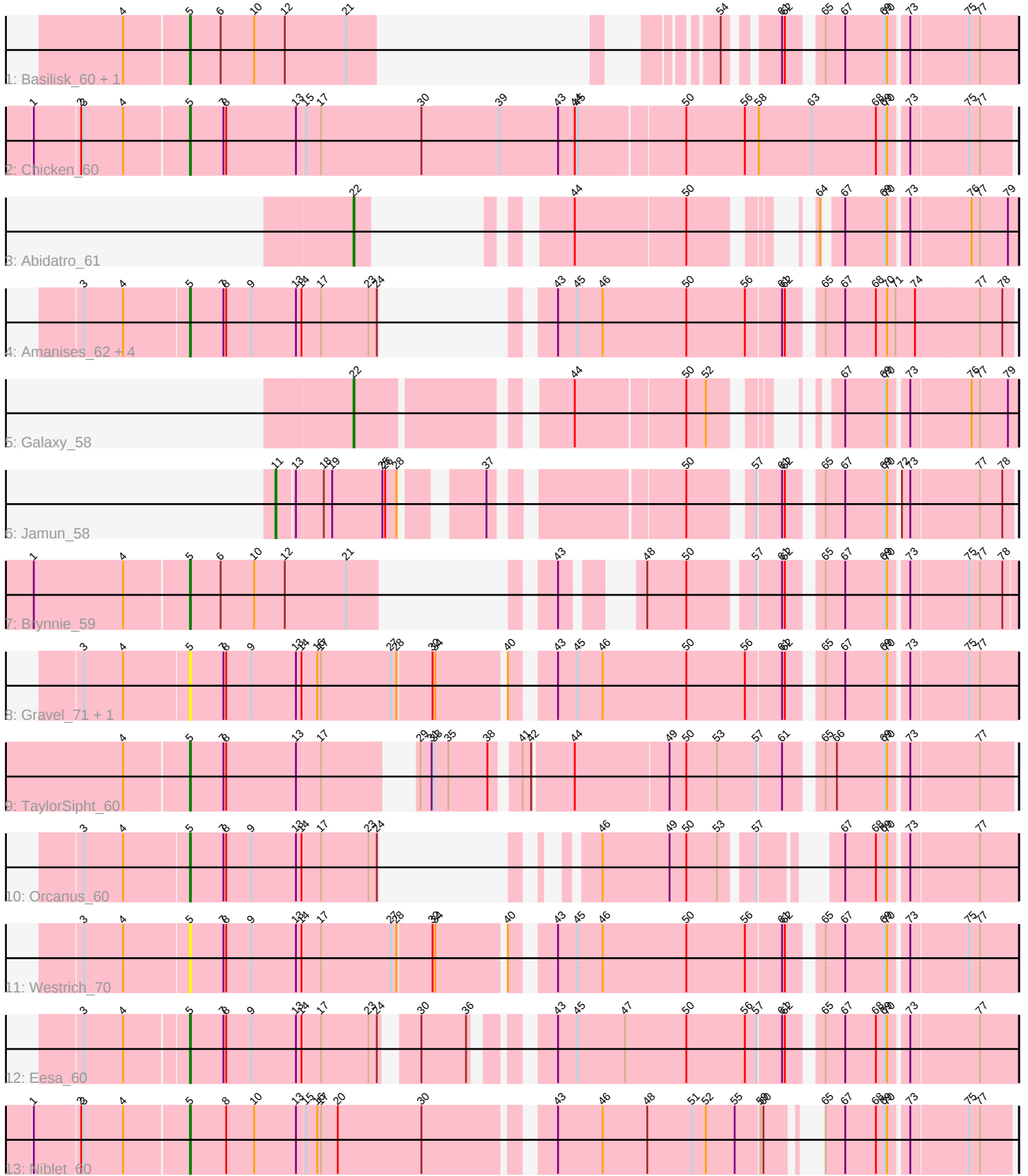


Pham 309356



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 309356 Report

This analysis was run 09/05/26 on database version 662.

Pham number 309356 has 19 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Basilisk_60, Ruchi_59
- Track 2 : Chicken_60
- Track 3 : Abidatro_61
- Track 4 : Amanises_62, Toad24_62, KendraB23_70, Zixiang_59, Shen_58
- Track 5 : Galaxy_58
- Track 6 : Jamun_58
- Track 7 : Brynnie_59
- Track 8 : Gravel_71, Pelletreau_71
- Track 9 : TaylorSipht_60
- Track 10 : Orcanus_60
- Track 11 : Westrich_70
- Track 12 : Eesa_60
- Track 13 : Niblet_60

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

The start number called the most often in the published annotations is 5, it was called in 11 of the 14 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Amanises_62, Basilisk_60, Brynnie_59, Chicken_60, Eesa_60, Gravel_71, KendraB23_70, Niblet_60, Orcanus_60, Pelletreau_71, Ruchi_59, Shen_58, TaylorSipht_60, Toad24_62, Westrich_70, Zixiang_59,

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

-

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

- Abidatro_61, Galaxy_58, Jamun_58,

Summary by start number:

Start 5:

- Found in 16 of 19 (84.2%) of genes in pham

- Manual Annotations of this start: 11 of 14
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Amanises_62 (AS1), Basilisk_60 (AS1), Brynnie_59 (AS1), Chicken_60 (AS1), Eesa_60 (AS1), Gravel_71 (AS1), KendraB23_70 (AS1), Niblet_60 (AS1), Orcanus_60 (AS1), Pelletreau_71 (AS1), Ruchi_59 (AS1), Shen_58 (AS1), TaylorSipht_60 (AS1), Toad24_62 (AS1), Westrich_70 (AS1), Zixiang_59 (AS1),

Start 11:

- Found in 1 of 19 (5.3%) of genes in pham
- Manual Annotations of this start: 1 of 14
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Jamun_58 (AS1),

Start 22:

- Found in 2 of 19 (10.5%) of genes in pham
- Manual Annotations of this start: 2 of 14
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Abidatro_61 (AS1), Galaxy_58 (AS1),

Summary by clusters:

There is one cluster represented in this pham: AS1

Info for manual annotations of cluster AS1:

- Start number 5 was manually annotated 11 times for cluster AS1.
- Start number 11 was manually annotated 1 time for cluster AS1.
- Start number 22 was manually annotated 2 times for cluster AS1.

Gene Information:

Gene: Abidatro_61 Start: 37154, Stop: 37618, Start Num: 22

Candidate Starts for Abidatro_61:

(Start: 22 @37154 has 2 MA's), (44, 37235), (50, 37352), (64, 37427), (67, 37442), (69, 37484), (70, 37487), (73, 37505), (76, 37568), (77, 37577), (79, 37607),

Gene: Amanises_62 Start: 37572, Stop: 38273, Start Num: 5

Candidate Starts for Amanises_62:

(3, 37461), (4, 37503), (Start: 5 @37572 has 11 MA's), (7, 37608), (8, 37611), (9, 37638), (13, 37686), (14, 37692), (17, 37710), (23, 37761), (24, 37770), (43, 37806), (45, 37827), (46, 37854), (50, 37944), (56, 38007), (61, 38043), (62, 38046), (65, 38073), (67, 38094), (68, 38127), (70, 38139), (71, 38148), (74, 38169), (77, 38238), (78, 38262),

Gene: Basilisk_60 Start: 36522, Stop: 37061, Start Num: 5

Candidate Starts for Basilisk_60:

(4, 36456), (Start: 5 @36522 has 11 MA's), (6, 36552), (10, 36588), (12, 36621), (21, 36687), (54, 36795), (61, 36837), (62, 36840), (65, 36867), (67, 36888), (69, 36930), (70, 36933), (73, 36951), (75, 37011), (77, 37023),

Gene: Brynnie_59 Start: 36458, Stop: 37090, Start Num: 5

Candidate Starts for Brynnie_59:

(1, 36296), (4, 36392), (Start: 5 @36458 has 11 MA's), (6, 36488), (10, 36524), (12, 36557), (21, 36623), (43, 36692), (48, 36740), (50, 36782), (57, 36845), (61, 36869), (62, 36872), (65, 36899), (67, 36920), (69, 36962), (70, 36965), (73, 36983), (75, 37043), (77, 37055), (78, 37079),

Gene: Chicken_60 Start: 37239, Stop: 38099, Start Num: 5

Candidate Starts for Chicken_60:

(1, 37080), (2, 37128), (3, 37131), (4, 37173), (Start: 5 @37239 has 11 MA's), (7, 37275), (8, 37278), (13, 37353), (15, 37362), (17, 37377), (30, 37485), (39, 37569), (43, 37632), (44, 37650), (45, 37653), (50, 37761), (56, 37824), (58, 37839), (63, 37896), (68, 37965), (69, 37974), (70, 37977), (73, 37995), (75, 38055), (77, 38067),

Gene: Eesa_60 Start: 37663, Stop: 38454, Start Num: 5

Candidate Starts for Eesa_60:

(3, 37558), (4, 37600), (Start: 5 @37663 has 11 MA's), (7, 37699), (8, 37702), (9, 37729), (13, 37777), (14, 37783), (17, 37801), (23, 37852), (24, 37861), (30, 37888), (36, 37936), (43, 37993), (45, 38014), (47, 38065), (50, 38131), (56, 38194), (57, 38206), (61, 38230), (62, 38233), (65, 38260), (67, 38281), (68, 38314), (69, 38323), (70, 38326), (73, 38344), (77, 38416),

Gene: Galaxy_58 Start: 35553, Stop: 36125, Start Num: 22

Candidate Starts for Galaxy_58:

(Start: 22 @35553 has 2 MA's), (44, 35748), (50, 35859), (52, 35880), (67, 35949), (69, 35991), (70, 35994), (73, 36012), (76, 36075), (77, 36084), (79, 36114),

Gene: Gravel_71 Start: 37886, Stop: 38710, Start Num: 5

Candidate Starts for Gravel_71:

(3, 37775), (4, 37817), (Start: 5 @37886 has 11 MA's), (7, 37922), (8, 37925), (9, 37952), (13, 38000), (14, 38006), (16, 38021), (17, 38024), (27, 38099), (28, 38105), (32, 38141), (34, 38144), (40, 38213), (43, 38249), (45, 38270), (46, 38297), (50, 38387), (56, 38450), (61, 38486), (62, 38489), (65, 38516), (67, 38537), (69, 38579), (70, 38582), (73, 38600), (75, 38660), (77, 38672),

Gene: Jamun_58 Start: 36794, Stop: 37456, Start Num: 11

Candidate Starts for Jamun_58:

(Start: 11 @36794 has 1 MA's), (13, 36812), (18, 36839), (19, 36848), (25, 36899), (26, 36902), (28, 36914), (37, 36980), (50, 37154), (57, 37211), (61, 37235), (62, 37238), (65, 37265), (67, 37286), (69, 37328), (70, 37331), (72, 37340), (73, 37349), (77, 37421), (78, 37445),

Gene: KendraB23_70 Start: 37574, Stop: 38275, Start Num: 5

Candidate Starts for KendraB23_70:

(3, 37463), (4, 37505), (Start: 5 @37574 has 11 MA's), (7, 37610), (8, 37613), (9, 37640), (13, 37688), (14, 37694), (17, 37712), (23, 37763), (24, 37772), (43, 37808), (45, 37829), (46, 37856), (50, 37946), (56, 38009), (61, 38045), (62, 38048), (65, 38075), (67, 38096), (68, 38129), (70, 38141), (71, 38150), (74, 38171), (77, 38240), (78, 38264),

Gene: Niblet_60 Start: 37177, Stop: 37974, Start Num: 5

Candidate Starts for Niblet_60:

(1, 37018), (2, 37066), (3, 37069), (4, 37111), (Start: 5 @37177 has 11 MA's), (8, 37216), (10, 37246), (13, 37291), (15, 37300), (16, 37312), (17, 37315), (20, 37333), (30, 37423), (43, 37543), (46, 37591), (48, 37639), (51, 37687), (52, 37702), (55, 37732), (59, 37756), (60, 37759), (65, 37786), (67, 37807), (68, 37840), (69, 37849), (70, 37852), (73, 37870), (75, 37930), (77, 37942),

Gene: Orcanus_60 Start: 37004, Stop: 37630, Start Num: 5

Candidate Starts for Orcanus_60:

(3, 36893), (4, 36935), (Start: 5 @37004 has 11 MA's), (7, 37040), (8, 37043), (9, 37070), (13, 37118), (14, 37124), (17, 37142), (23, 37193), (24, 37202), (46, 37253), (49, 37325), (50, 37343), (53, 37376), (57, 37406), (67, 37457), (68, 37490), (69, 37499), (70, 37502), (73, 37520), (77, 37592),

Gene: Pelletreau_71 Start: 37886, Stop: 38710, Start Num: 5

Candidate Starts for Pelletreau_71:

(3, 37775), (4, 37817), (Start: 5 @37886 has 11 MA's), (7, 37922), (8, 37925), (9, 37952), (13, 38000), (14, 38006), (16, 38021), (17, 38024), (27, 38099), (28, 38105), (32, 38141), (34, 38144), (40, 38213), (43, 38249), (45, 38270), (46, 38297), (50, 38387), (56, 38450), (61, 38486), (62, 38489), (65, 38516), (67, 38537), (69, 38579), (70, 38582), (73, 38600), (75, 38660), (77, 38672),

Gene: Ruchi_59 Start: 36444, Stop: 36983, Start Num: 5

Candidate Starts for Ruchi_59:

(4, 36378), (Start: 5 @36444 has 11 MA's), (6, 36474), (10, 36510), (12, 36543), (21, 36609), (54, 36717), (61, 36759), (62, 36762), (65, 36789), (67, 36810), (69, 36852), (70, 36855), (73, 36873), (75, 36933), (77, 36945),

Gene: Shen_58 Start: 35486, Stop: 36187, Start Num: 5

Candidate Starts for Shen_58:

(3, 35375), (4, 35417), (Start: 5 @35486 has 11 MA's), (7, 35522), (8, 35525), (9, 35552), (13, 35600), (14, 35606), (17, 35624), (23, 35675), (24, 35684), (43, 35720), (45, 35741), (46, 35768), (50, 35858), (56, 35921), (61, 35957), (62, 35960), (65, 35987), (67, 36008), (68, 36041), (70, 36053), (71, 36062), (74, 36083), (77, 36152), (78, 36176),

Gene: TaylorSipht_60 Start: 36620, Stop: 37408, Start Num: 5

Candidate Starts for TaylorSipht_60:

(4, 36554), (Start: 5 @36620 has 11 MA's), (7, 36656), (8, 36659), (13, 36734), (17, 36758), (29, 36827), (31, 36839), (33, 36842), (35, 36857), (38, 36899), (41, 36923), (42, 36932), (44, 36974), (49, 37070), (50, 37088), (53, 37121), (57, 37163), (61, 37187), (65, 37217), (66, 37229), (69, 37280), (70, 37283), (73, 37301), (77, 37373),

Gene: Toad24_62 Start: 37626, Stop: 38327, Start Num: 5

Candidate Starts for Toad24_62:

(3, 37515), (4, 37557), (Start: 5 @37626 has 11 MA's), (7, 37662), (8, 37665), (9, 37692), (13, 37740), (14, 37746), (17, 37764), (23, 37815), (24, 37824), (43, 37860), (45, 37881), (46, 37908), (50, 37998), (56, 38061), (61, 38097), (62, 38100), (65, 38127), (67, 38148), (68, 38181), (70, 38193), (71, 38202), (74, 38223), (77, 38292), (78, 38316),

Gene: Westrich_70 Start: 37810, Stop: 38634, Start Num: 5

Candidate Starts for Westrich_70:

(3, 37699), (4, 37741), (Start: 5 @37810 has 11 MA's), (7, 37846), (8, 37849), (9, 37876), (13, 37924), (14, 37930), (17, 37948), (27, 38023), (28, 38029), (32, 38065), (34, 38068), (40, 38137), (43, 38173), (45, 38194), (46, 38221), (50, 38311), (56, 38374), (61, 38410), (62, 38413), (65, 38440), (67, 38461), (69, 38503), (70, 38506), (73, 38524), (75, 38584), (77, 38596),

Gene: Zixiang_59 Start: 36990, Stop: 37691, Start Num: 5

Candidate Starts for Zixiang_59:

(3, 36879), (4, 36921), (Start: 5 @36990 has 11 MA's), (7, 37026), (8, 37029), (9, 37056), (13, 37104), (14, 37110), (17, 37128), (23, 37179), (24, 37188), (43, 37224), (45, 37245), (46, 37272), (50, 37362), (56, 37425), (61, 37461), (62, 37464), (65, 37491), (67, 37512), (68, 37545), (70, 37557), (71, 37566), (74, 37587), (77, 37656), (78, 37680),