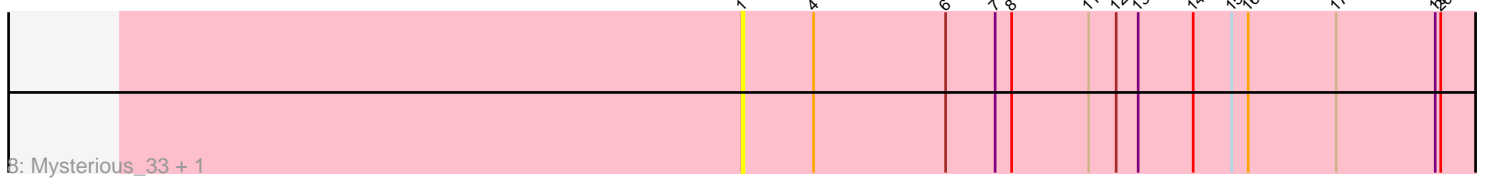
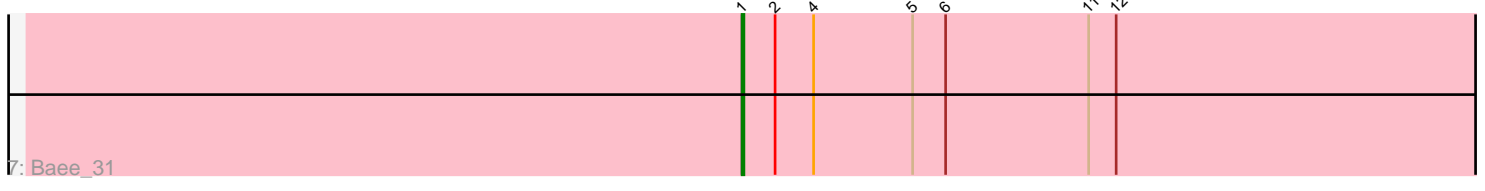
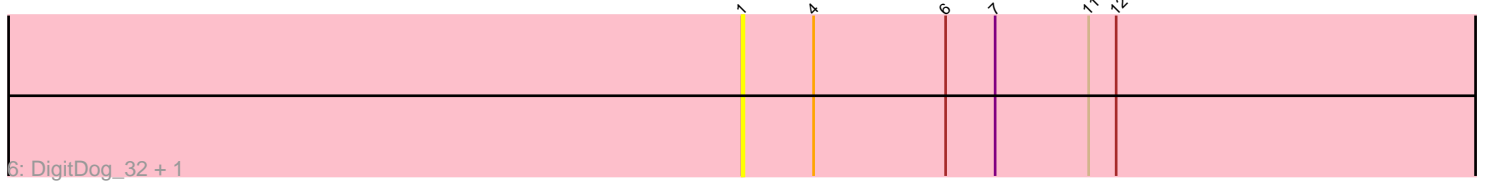
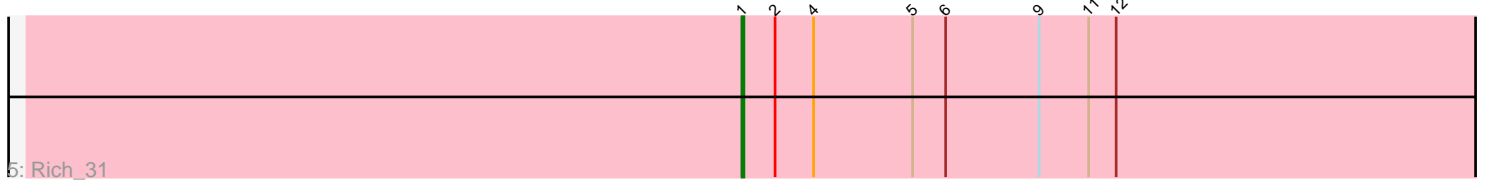
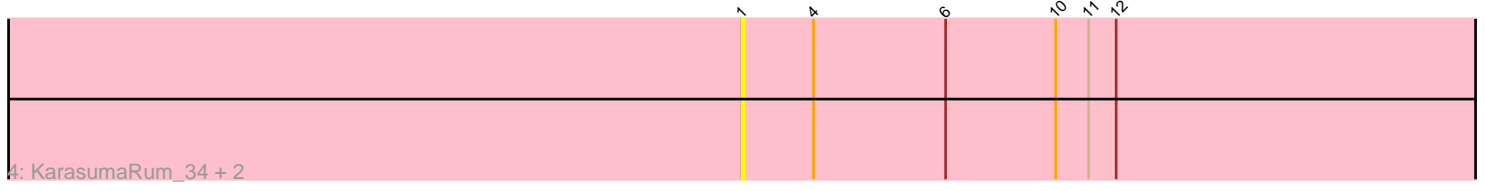
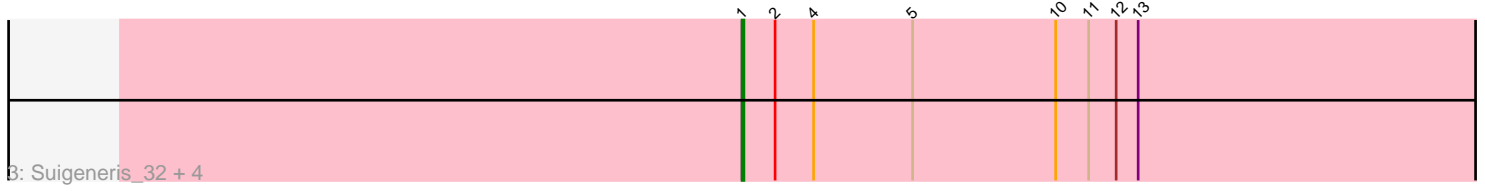
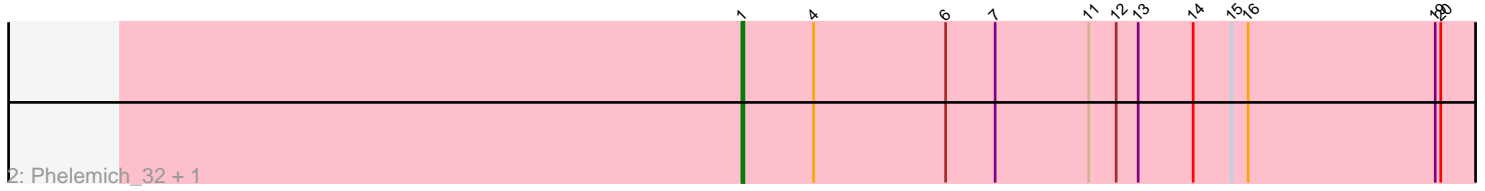
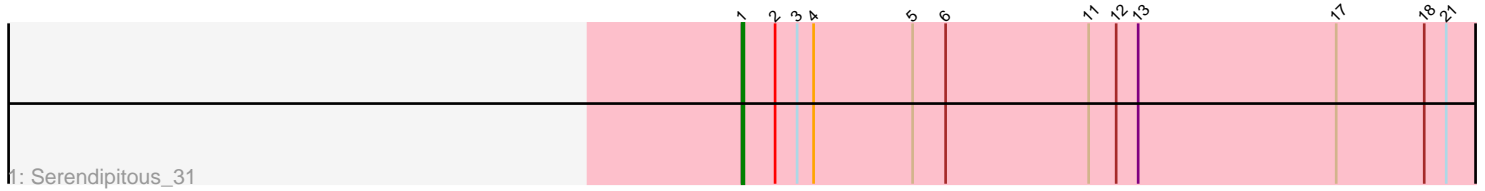


Zoomed Pham 196893



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 196893 Report

This analysis was run 12/09/24 on database version 580.

Pham number 196893 has 17 members, 8 are drafts.

Phages represented in each track:

- Track 1 : Serendipitous_31
- Track 2 : Phelemich_32, Reprobate_32
- Track 3 : Suigeneris_32, Donny_32, EastView9101_31, Acadian_32, SirJeffery_32
- Track 4 : KarasumaRum_34, Shenyu_32, StinkyVeggy_34
- Track 5 : Rich_31
- Track 6 : DigitDog_32, Nangang_32
- Track 7 : Bae_31
- Track 8 : Mysterious_33, Nehemiah_31

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

The start number called the most often in the published annotations is 1, it was called in 9 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Acadian_32, Bae_31, DigitDog_32, Donny_32, EastView9101_31, KarasumaRum_34, Mysterious_33, Nangang_32, Nehemiah_31, Phelemich_32, Reprobate_32, Rich_31, Serendipitous_31, Shenyu_32, SirJeffery_32, StinkyVeggy_34, Suigeneris_32,

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 1:

- Found in 17 of 17 (100.0%) of genes in pham
- Manual Annotations of this start: 9 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Acadian_32 (B5), Bae_31 (B5), DigitDog_32 (B5), Donny_32 (B5), EastView9101_31 (B5), KarasumaRum_34 (B5),

Mysterious_33 (B5), Nangang_32 (B5), Nehemiah_31 (B5), Phelemich_32 (B5),
Reprobate_32 (B5), Rich_31 (B5), Serendipitous_31 (B5), Shenyu_32 (B5),
SirJeffery_32 (B5), StinkyVeggy_34 (B5), Suigeneris_32 (B5),

Summary by clusters:

There is one cluster represented in this pham: B5

Info for manual annotations of cluster B5:

- Start number 1 was manually annotated 9 times for cluster B5.

Gene Information:

Gene: Acadian_32 Start: 32586, Stop: 34091, Start Num: 1

Candidate Starts for Acadian_32:

(Start: 1 @32586 has 9 MA's), (2, 32604), (4, 32625), (5, 32679), (10, 32757), (11, 32775), (12, 32790), (13, 32802), (22, 33039), (26, 33090), (28, 33117), (30, 33144), (33, 33231), (34, 33246), (35, 33285), (38, 33375), (44, 33435), (48, 33558), (49, 33597), (50, 33633), (55, 33957), (57, 34077),

Gene: Bae_31 Start: 32397, Stop: 33902, Start Num: 1

Candidate Starts for Bae_31:

(Start: 1 @32397 has 9 MA's), (2, 32415), (4, 32436), (5, 32490), (6, 32508), (11, 32586), (12, 32601), (26, 32901), (28, 32928), (30, 32955), (32, 33021), (33, 33042), (34, 33057), (35, 33096), (38, 33186), (40, 33213), (44, 33246), (47, 33342), (48, 33369), (49, 33408), (50, 33444), (51, 33567), (53, 33672), (55, 33768), (56, 33786), (57, 33888),

Gene: DigitDog_32 Start: 32179, Stop: 33684, Start Num: 1

Candidate Starts for DigitDog_32:

(Start: 1 @32179 has 9 MA's), (4, 32218), (6, 32290), (7, 32317), (11, 32368), (12, 32383), (23, 32635), (25, 32665), (26, 32683), (28, 32710), (30, 32737), (34, 32839), (35, 32878), (36, 32893), (38, 32968), (42, 33013), (43, 33019), (44, 33028), (47, 33124), (49, 33190), (50, 33226), (52, 33439), (55, 33550), (57, 33670),

Gene: Donny_32 Start: 32591, Stop: 34096, Start Num: 1

Candidate Starts for Donny_32:

(Start: 1 @32591 has 9 MA's), (2, 32609), (4, 32630), (5, 32684), (10, 32762), (11, 32780), (12, 32795), (13, 32807), (22, 33044), (26, 33095), (28, 33122), (30, 33149), (33, 33236), (34, 33251), (35, 33290), (38, 33380), (44, 33440), (48, 33563), (49, 33602), (50, 33638), (55, 33962), (57, 34082),

Gene: EastView9101_31 Start: 32241, Stop: 33746, Start Num: 1

Candidate Starts for EastView9101_31:

(Start: 1 @32241 has 9 MA's), (2, 32259), (4, 32280), (5, 32334), (10, 32412), (11, 32430), (12, 32445), (13, 32457), (22, 32694), (26, 32745), (28, 32772), (30, 32799), (33, 32886), (34, 32901), (35, 32940), (38, 33030), (44, 33090), (48, 33213), (49, 33252), (50, 33288), (55, 33612), (57, 33732),

Gene: KarasumaRum_34 Start: 32734, Stop: 34239, Start Num: 1

Candidate Starts for KarasumaRum_34:

(Start: 1 @32734 has 9 MA's), (4, 32773), (6, 32845), (10, 32905), (11, 32923), (12, 32938), (23, 33190), (25, 33220), (26, 33238), (28, 33265), (30, 33292), (34, 33394), (35, 33433), (36, 33448), (38, 33523), (42, 33568), (43, 33574), (44, 33583), (47, 33679), (49, 33745), (50, 33781), (52, 33994), (55, 34105), (57, 34225),

Gene: Mysterious_33 Start: 32854, Stop: 34362, Start Num: 1

Candidate Starts for Mysterious_33:

(Start: 1 @32854 has 9 MA's), (4, 32893), (6, 32965), (7, 32992), (8, 33001), (11, 33043), (12, 33058), (13, 33070), (14, 33100), (15, 33121), (16, 33130), (17, 33178), (19, 33232), (20, 33235), (22, 33307), (26, 33358), (28, 33385), (30, 33412), (31, 33463), (33, 33499), (34, 33514), (35, 33553), (36, 33568), (38, 33643), (42, 33688), (43, 33694), (44, 33703), (46, 33775), (47, 33799), (48, 33826), (49, 33865), (50, 33901), (51, 34027), (52, 34117), (55, 34228), (57, 34348),

Gene: Nangang_32 Start: 32544, Stop: 34049, Start Num: 1

Candidate Starts for Nangang_32:

(Start: 1 @32544 has 9 MA's), (4, 32583), (6, 32655), (7, 32682), (11, 32733), (12, 32748), (23, 33000), (25, 33030), (26, 33048), (28, 33075), (30, 33102), (34, 33204), (35, 33243), (36, 33258), (38, 33333), (42, 33378), (43, 33384), (44, 33393), (47, 33489), (49, 33555), (50, 33591), (52, 33804), (55, 33915), (57, 34035),

Gene: Nehemiah_31 Start: 32857, Stop: 34362, Start Num: 1

Candidate Starts for Nehemiah_31:

(Start: 1 @32857 has 9 MA's), (4, 32896), (6, 32968), (7, 32995), (8, 33004), (11, 33046), (12, 33061), (13, 33073), (14, 33103), (15, 33124), (16, 33133), (17, 33181), (19, 33235), (20, 33238), (22, 33310), (26, 33361), (28, 33388), (30, 33415), (31, 33466), (33, 33502), (34, 33517), (35, 33556), (36, 33571), (38, 33646), (42, 33691), (43, 33697), (44, 33706), (46, 33778), (47, 33802), (48, 33829), (49, 33868), (50, 33904), (51, 34027), (52, 34117), (55, 34228), (57, 34348),

Gene: Phelemich_32 Start: 32856, Stop: 34361, Start Num: 1

Candidate Starts for Phelemich_32:

(Start: 1 @32856 has 9 MA's), (4, 32895), (6, 32967), (7, 32994), (11, 33045), (12, 33060), (13, 33072), (14, 33102), (15, 33123), (16, 33132), (19, 33234), (20, 33237), (22, 33309), (26, 33360), (28, 33387), (30, 33414), (31, 33465), (33, 33501), (34, 33516), (35, 33555), (36, 33570), (38, 33645), (42, 33690), (43, 33696), (44, 33705), (46, 33777), (47, 33801), (48, 33828), (49, 33867), (50, 33903), (54, 34221), (55, 34227), (57, 34347),

Gene: Reprobate_32 Start: 32861, Stop: 34366, Start Num: 1

Candidate Starts for Reprobate_32:

(Start: 1 @32861 has 9 MA's), (4, 32900), (6, 32972), (7, 32999), (11, 33050), (12, 33065), (13, 33077), (14, 33107), (15, 33128), (16, 33137), (19, 33239), (20, 33242), (22, 33314), (26, 33365), (28, 33392), (30, 33419), (31, 33470), (33, 33506), (34, 33521), (35, 33560), (36, 33575), (38, 33650), (42, 33695), (43, 33701), (44, 33710), (46, 33782), (47, 33806), (48, 33833), (49, 33872), (50, 33908), (54, 34226), (55, 34232), (57, 34352),

Gene: Rich_31 Start: 32367, Stop: 33872, Start Num: 1

Candidate Starts for Rich_31:

(Start: 1 @32367 has 9 MA's), (2, 32385), (4, 32406), (5, 32460), (6, 32478), (9, 32529), (11, 32556), (12, 32571), (26, 32871), (28, 32898), (30, 32925), (32, 32991), (33, 33012), (34, 33027), (35, 33066), (38, 33156), (40, 33183), (41, 33192), (44, 33216), (47, 33312), (48, 33339), (49, 33378), (50, 33414), (51, 33537), (53, 33642), (55, 33738), (56, 33756), (57, 33858),

Gene: Serendipitous_31 Start: 32443, Stop: 33945, Start Num: 1

Candidate Starts for Serendipitous_31:

(Start: 1 @32443 has 9 MA's), (2, 32461), (3, 32473), (4, 32482), (5, 32536), (6, 32554), (11, 32632), (12, 32647), (13, 32659), (17, 32767), (18, 32815), (21, 32827), (24, 32920), (26, 32947), (27, 32965), (28, 32974), (29, 32983), (30, 33001), (31, 33052), (32, 33067), (33, 33088), (35, 33139), (37, 33223), (38, 33229), (39, 33253), (42, 33274), (45, 33301), (47, 33385), (48, 33412), (49, 33451), (50, 33487),

(52, 33700), (55, 33811), (57, 33931),

Gene: Shenyu_32 Start: 32544, Stop: 34049, Start Num: 1

Candidate Starts for Shenyu_32:

(Start: 1 @32544 has 9 MA's), (4, 32583), (6, 32655), (10, 32715), (11, 32733), (12, 32748), (23, 33000), (25, 33030), (26, 33048), (28, 33075), (30, 33102), (34, 33204), (35, 33243), (36, 33258), (38, 33333), (42, 33378), (43, 33384), (44, 33393), (47, 33489), (49, 33555), (50, 33591), (52, 33804), (55, 33915), (57, 34035),

Gene: SirJeffery_32 Start: 32588, Stop: 34093, Start Num: 1

Candidate Starts for SirJeffery_32:

(Start: 1 @32588 has 9 MA's), (2, 32606), (4, 32627), (5, 32681), (10, 32759), (11, 32777), (12, 32792), (13, 32804), (22, 33041), (26, 33092), (28, 33119), (30, 33146), (33, 33233), (34, 33248), (35, 33287), (38, 33377), (44, 33437), (48, 33560), (49, 33599), (50, 33635), (55, 33959), (57, 34079),

Gene: StinkyVeggy_34 Start: 32734, Stop: 34239, Start Num: 1

Candidate Starts for StinkyVeggy_34:

(Start: 1 @32734 has 9 MA's), (4, 32773), (6, 32845), (10, 32905), (11, 32923), (12, 32938), (23, 33190), (25, 33220), (26, 33238), (28, 33265), (30, 33292), (34, 33394), (35, 33433), (36, 33448), (38, 33523), (42, 33568), (43, 33574), (44, 33583), (47, 33679), (49, 33745), (50, 33781), (52, 33994), (55, 34105), (57, 34225),

Gene: Suigeneris_32 Start: 32591, Stop: 34096, Start Num: 1

Candidate Starts for Suigeneris_32:

(Start: 1 @32591 has 9 MA's), (2, 32609), (4, 32630), (5, 32684), (10, 32762), (11, 32780), (12, 32795), (13, 32807), (22, 33044), (26, 33095), (28, 33122), (30, 33149), (33, 33236), (34, 33251), (35, 33290), (38, 33380), (44, 33440), (48, 33563), (49, 33602), (50, 33638), (55, 33962), (57, 34082),