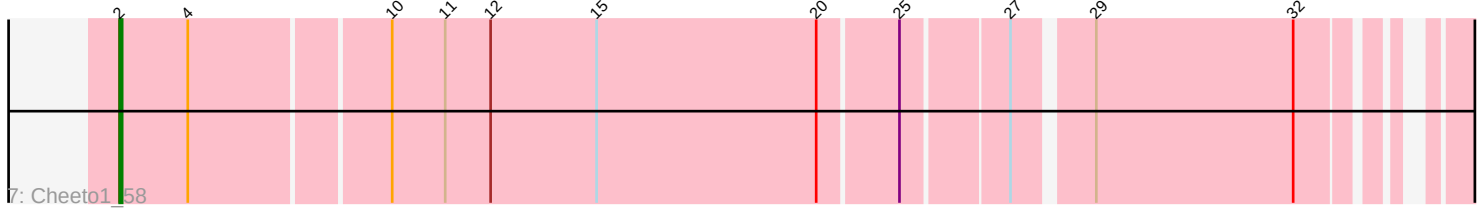
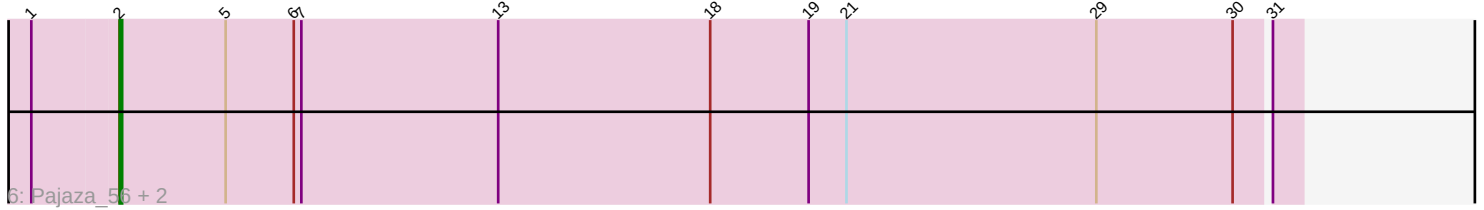
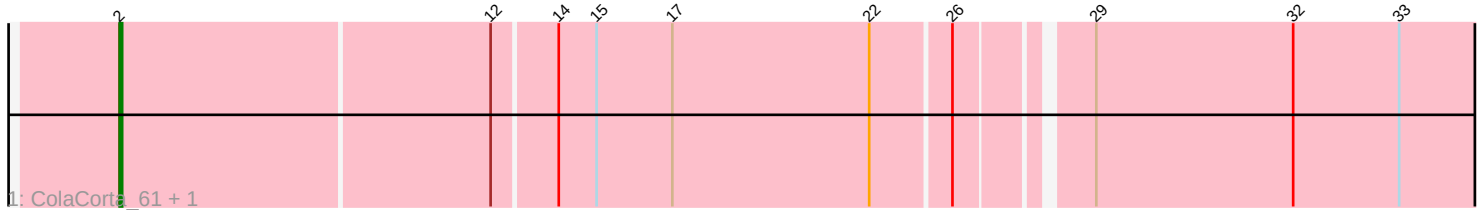


Pham 331304



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 331304 Report

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

Pham number 331304 has 18 members, 2 are drafts.

Phages represented in each track:

- Track 1 : ColaCorta_61, Andromedas_61
- Track 2 : Sansa_59, Glamour_60, Shamu_61, Eleri_61, Xebius_61, PSirce_61, Saratos_61
- Track 3 : ChikPic_61
- Track 4 : Phanita_62, Zenitsu_61, MCubed_61
- Track 5 : Orpington_61
- Track 6 : Pajaza_56, Pikmin_56, Casey_56
- Track 7 : Cheeto1_58

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

The start number called the most often in the published annotations is 2, it was called in 16 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Andromedas_61, Casey_56, Cheeto1_58, ChikPic_61, ColaCorta_61, Eleri_61, Glamour_60, MCubed_61, PSirce_61, Pajaza_56, Phanita_62, Pikmin_56, Sansa_59, Saratos_61, Shamu_61, Xebius_61, Zenitsu_61,

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

- Orpington_61,

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

•

Summary by start number:

Start 2:

- Found in 18 of 18 (100.0%) of genes in pham
- Manual Annotations of this start: 16 of 16
- Called 94.4% of time when present
- Phage (with cluster) where this start called: Andromedas_61 (EA2), Casey_56 (EA3), Cheeto1_58 (EA9), ChikPic_61 (EA2), ColaCorta_61 (EA2), Eleri_61 (EA2), Glamour_60 (EA2), MCubed_61 (EA2), PSirce_61 (EA2), Pajaza_56 (EA3),

Phanita_62 (EA2), Pikmin_56 (EA3), Sansa_59 (EA2), Saratos_61 (EA2), Shamu_61 (EA2), Xebius_61 (EA2), Zenitsu_61 (EA2),

Start 8:

- Found in 12 of 18 (66.7%) of genes in pham
- No Manual Annotations of this start.
- Called 8.3% of time when present
- Phage (with cluster) where this start called: Orpington_61 (EA2),

Summary by clusters:

There are 3 clusters represented in this pham: EA9, EA3, EA2,

Info for manual annotations of cluster EA2:

- Start number 2 was manually annotated 12 times for cluster EA2.

Info for manual annotations of cluster EA3:

- Start number 2 was manually annotated 3 times for cluster EA3.

Info for manual annotations of cluster EA9:

- Start number 2 was manually annotated 1 time for cluster EA9.

Gene Information:

Gene: Andromedas_61 Start: 39455, Stop: 38913, Start Num: 2

Candidate Starts for Andromedas_61:

(Start: 2 @39455 has 16 MA's), (12, 39311), (14, 39287), (15, 39272), (17, 39242), (22, 39164), (26, 39134), (29, 39089), (32, 39011), (33, 38969),

Gene: Casey_56 Start: 37971, Stop: 37507, Start Num: 2

Candidate Starts for Casey_56:

(1, 38004), (Start: 2 @37971 has 16 MA's), (5, 37929), (6, 37902), (7, 37899), (13, 37821), (18, 37737), (19, 37698), (21, 37683), (29, 37584), (30, 37530), (31, 37518),

Gene: Cheeto1_58 Start: 39028, Stop: 38504, Start Num: 2

Candidate Starts for Cheeto1_58:

(Start: 2 @39028 has 16 MA's), (4, 39001), (10, 38926), (11, 38905), (12, 38887), (15, 38845), (20, 38758), (25, 38728), (27, 38689), (29, 38662), (32, 38584),

Gene: ChikPic_61 Start: 39300, Stop: 38782, Start Num: 2

Candidate Starts for ChikPic_61:

(Start: 2 @39300 has 16 MA's), (3, 39291), (4, 39273), (8, 39216), (9, 39207), (11, 39174), (15, 39114), (16, 39102), (22, 39009), (23, 39006), (24, 39003), (27, 38958), (32, 38859),

Gene: ColaCorta_61 Start: 39455, Stop: 38913, Start Num: 2

Candidate Starts for ColaCorta_61:

(Start: 2 @39455 has 16 MA's), (12, 39311), (14, 39287), (15, 39272), (17, 39242), (22, 39164), (26, 39134), (29, 39089), (32, 39011), (33, 38969),

Gene: Eleri_61 Start: 39336, Stop: 38818, Start Num: 2

Candidate Starts for Eleri_61:

(Start: 2 @39336 has 16 MA's), (3, 39327), (4, 39309), (8, 39252), (9, 39243), (11, 39210), (15, 39150), (16, 39138), (22, 39045), (23, 39042), (27, 38994), (32, 38895),

Gene: Glamour_60 Start: 39194, Stop: 38676, Start Num: 2

Candidate Starts for Glamour_60:

(Start: 2 @39194 has 16 MA's), (3, 39185), (4, 39167), (8, 39110), (9, 39101), (11, 39068), (15, 39008), (16, 38996), (22, 38903), (23, 38900), (27, 38852), (32, 38753),

Gene: MCubed_61 Start: 39352, Stop: 38834, Start Num: 2

Candidate Starts for MCubed_61:

(Start: 2 @39352 has 16 MA's), (3, 39343), (4, 39325), (8, 39268), (9, 39259), (11, 39226), (15, 39166), (16, 39154), (22, 39061), (23, 39058), (27, 39010), (28, 39007), (32, 38911),

Gene: Orpington_61 Start: 39125, Stop: 38691, Start Num: 8

Candidate Starts for Orpington_61:

(Start: 2 @39209 has 16 MA's), (3, 39200), (4, 39182), (8, 39125), (9, 39116), (11, 39083), (15, 39023), (16, 39011), (22, 38918), (23, 38915), (27, 38867), (32, 38768),

Gene: PSirce_61 Start: 39489, Stop: 38971, Start Num: 2

Candidate Starts for PSirce_61:

(Start: 2 @39489 has 16 MA's), (3, 39480), (4, 39462), (8, 39405), (9, 39396), (11, 39363), (15, 39303), (16, 39291), (22, 39198), (23, 39195), (27, 39147), (32, 39048),

Gene: Pajaza_56 Start: 37971, Stop: 37507, Start Num: 2

Candidate Starts for Pajaza_56:

(1, 38004), (Start: 2 @37971 has 16 MA's), (5, 37929), (6, 37902), (7, 37899), (13, 37821), (18, 37737), (19, 37698), (21, 37683), (29, 37584), (30, 37530), (31, 37518),

Gene: Phanita_62 Start: 39262, Stop: 38744, Start Num: 2

Candidate Starts for Phanita_62:

(Start: 2 @39262 has 16 MA's), (3, 39253), (4, 39235), (8, 39178), (9, 39169), (11, 39136), (15, 39076), (16, 39064), (22, 38971), (23, 38968), (27, 38920), (28, 38917), (32, 38821),

Gene: Pikmin_56 Start: 37971, Stop: 37507, Start Num: 2

Candidate Starts for Pikmin_56:

(1, 38004), (Start: 2 @37971 has 16 MA's), (5, 37929), (6, 37902), (7, 37899), (13, 37821), (18, 37737), (19, 37698), (21, 37683), (29, 37584), (30, 37530), (31, 37518),

Gene: Sansa_59 Start: 39276, Stop: 38758, Start Num: 2

Candidate Starts for Sansa_59:

(Start: 2 @39276 has 16 MA's), (3, 39267), (4, 39249), (8, 39192), (9, 39183), (11, 39150), (15, 39090), (16, 39078), (22, 38985), (23, 38982), (27, 38934), (32, 38835),

Gene: Saratos_61 Start: 39320, Stop: 38802, Start Num: 2

Candidate Starts for Saratos_61:

(Start: 2 @39320 has 16 MA's), (3, 39311), (4, 39293), (8, 39236), (9, 39227), (11, 39194), (15, 39134), (16, 39122), (22, 39029), (23, 39026), (27, 38978), (32, 38879),

Gene: Shamu_61 Start: 39209, Stop: 38691, Start Num: 2

Candidate Starts for Shamu_61:

(Start: 2 @39209 has 16 MA's), (3, 39200), (4, 39182), (8, 39125), (9, 39116), (11, 39083), (15, 39023), (16, 39011), (22, 38918), (23, 38915), (27, 38867), (32, 38768),

Gene: Xebius_61 Start: 39323, Stop: 38805, Start Num: 2

Candidate Starts for Xebius_61:

(Start: 2 @39323 has 16 MA's), (3, 39314), (4, 39296), (8, 39239), (9, 39230), (11, 39197), (15, 39137), (16, 39125), (22, 39032), (23, 39029), (27, 38981), (32, 38882),

Gene: Zenitsu_61 Start: 39357, Stop: 38839, Start Num: 2

Candidate Starts for Zenitsu_61:

(Start: 2 @39357 has 16 MA's), (3, 39348), (4, 39330), (8, 39273), (9, 39264), (11, 39231), (15, 39171), (16, 39159), (22, 39066), (23, 39063), (27, 39015), (28, 39012), (32, 38916),