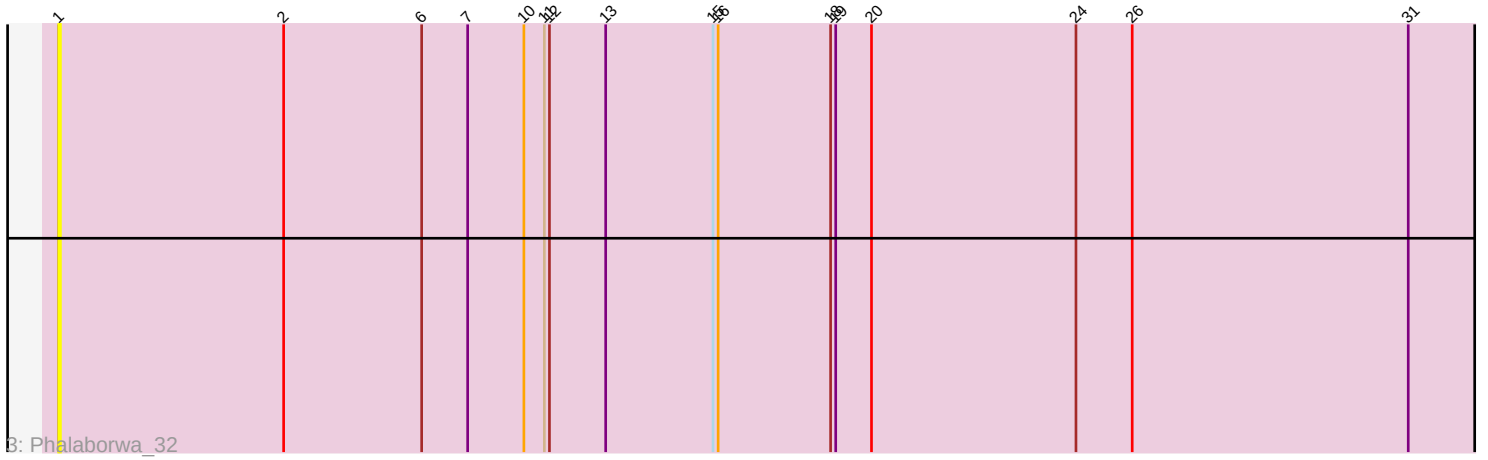
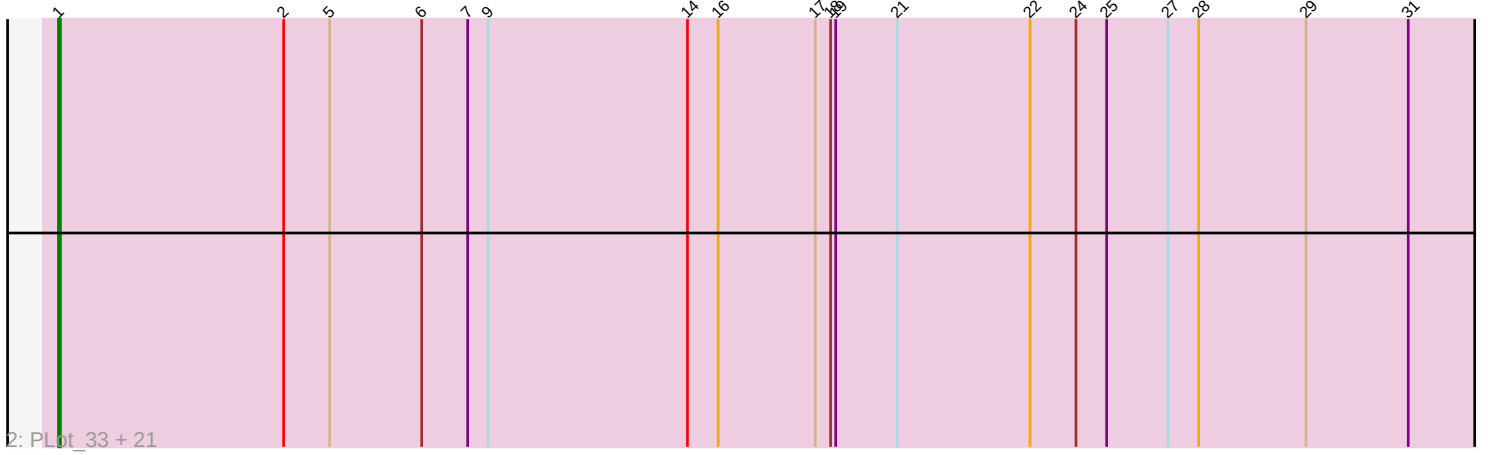
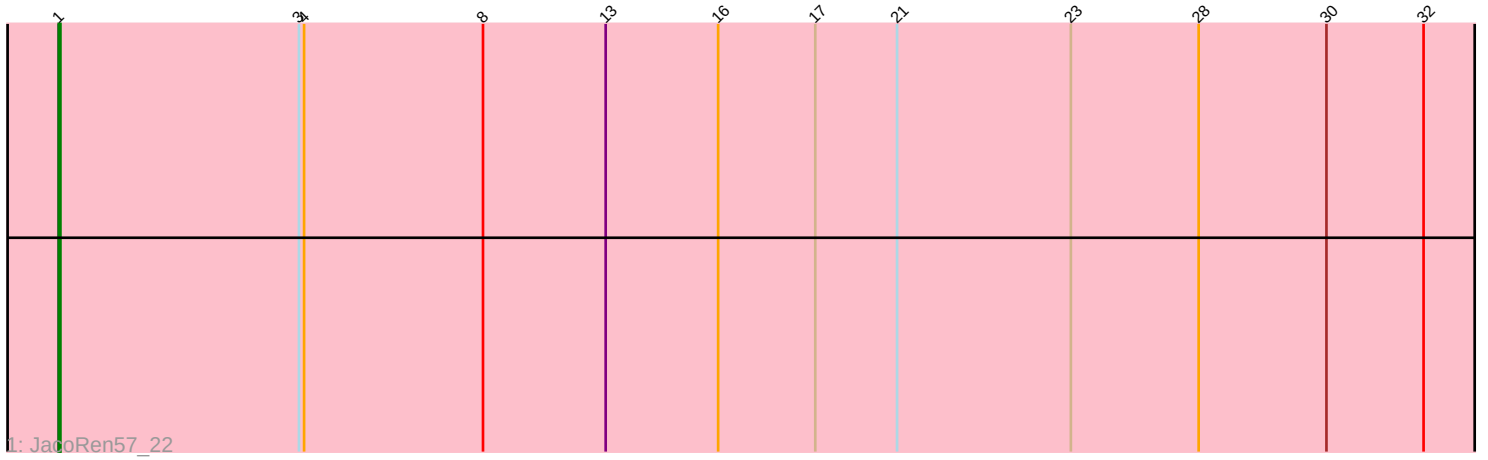




Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly 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 327419 Report

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

Pham number 327419 has 24 members, 1 are drafts.

Phages represented in each track:

- Track 1 : JacoRen57_22
- Track 2 : PLOt_33, Giuseppe_32, BigMama_30, Adjutor_33, PBI1_32, SirHarley_31, Penelope2018_32, Mopey_32, Delton_32, Thoth_32, Visconti_32, Prager_32, Chill_33, KandZ_32, WaldoWhy_33, SuperheroCarly_32, Gumball_31, Nova_32, Butterscotch_32, Helpful_33, Troll4_32, Erk16_32
- Track 3 : Phalaborwa_32

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 23 of the 23 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Adjutor_33, BigMama_30, Butterscotch_32, Chill_33, Delton_32, Erk16_32, Giuseppe_32, Gumball_31, Helpful_33, JacoRen57_22, KandZ_32, Mopey_32, Nova_32, PBI1_32, PLOt_33, Penelope2018_32, Phalaborwa_32, Prager_32, SirHarley_31, SuperheroCarly_32, Thoth_32, Troll4_32, Visconti_32, WaldoWhy_33,

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 24 of 24 (100.0%) of genes in pham
- Manual Annotations of this start: 23 of 23
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Adjutor_33 (D1), BigMama_30 (D1), Butterscotch_32 (D1), Chill_33 (D1), Delton_32 (D1), Erk16_32 (D1), Giuseppe_32 (D1), Gumball_31 (D1), Helpful_33 (D1), JacoRen57_22 (AB), KandZ_32 (D1), Mopey_32 (D1), Nova_32 (D1), PBI1_32 (D1), PLOt_33 (D1), Penelope2018_32 (D1),

Phalaborwa_32 (D1), Prager_32 (D1), SirHarley_31 (D1), SuperheroCarly_32 (D1), Thoth_32 (D1), Troll4_32 (D1), Visconti_32 (D1), WaldoWhy_33 (D1),

Summary by clusters:

There are 2 clusters represented in this pham: AB, D1,

Info for manual annotations of cluster AB:

- Start number 1 was manually annotated 1 time for cluster AB.

Info for manual annotations of cluster D1:

- Start number 1 was manually annotated 22 times for cluster D1.

Gene Information:

Gene: Adjutor_33 Start: 28574, Stop: 29440, Start Num: 1

Candidate Starts for Adjutor_33:

(Start: 1 @28574 has 23 MA's), (2, 28706), (5, 28733), (6, 28787), (7, 28814), (9, 28826), (14, 28943), (16, 28961), (17, 29018), (18, 29027), (19, 29030), (21, 29066), (22, 29144), (24, 29171), (25, 29189), (27, 29225), (28, 29243), (29, 29306), (31, 29366),

Gene: BigMama_30 Start: 28650, Stop: 29516, Start Num: 1

Candidate Starts for BigMama_30:

(Start: 1 @28650 has 23 MA's), (2, 28782), (5, 28809), (6, 28863), (7, 28890), (9, 28902), (14, 29019), (16, 29037), (17, 29094), (18, 29103), (19, 29106), (21, 29142), (22, 29220), (24, 29247), (25, 29265), (27, 29301), (28, 29319), (29, 29382), (31, 29442),

Gene: Butterscotch_32 Start: 28634, Stop: 29500, Start Num: 1

Candidate Starts for Butterscotch_32:

(Start: 1 @28634 has 23 MA's), (2, 28766), (5, 28793), (6, 28847), (7, 28874), (9, 28886), (14, 29003), (16, 29021), (17, 29078), (18, 29087), (19, 29090), (21, 29126), (22, 29204), (24, 29231), (25, 29249), (27, 29285), (28, 29303), (29, 29366), (31, 29426),

Gene: Chill_33 Start: 28640, Stop: 29506, Start Num: 1

Candidate Starts for Chill_33:

(Start: 1 @28640 has 23 MA's), (2, 28772), (5, 28799), (6, 28853), (7, 28880), (9, 28892), (14, 29009), (16, 29027), (17, 29084), (18, 29093), (19, 29096), (21, 29132), (22, 29210), (24, 29237), (25, 29255), (27, 29291), (28, 29309), (29, 29372), (31, 29432),

Gene: Delton_32 Start: 28646, Stop: 29512, Start Num: 1

Candidate Starts for Delton_32:

(Start: 1 @28646 has 23 MA's), (2, 28778), (5, 28805), (6, 28859), (7, 28886), (9, 28898), (14, 29015), (16, 29033), (17, 29090), (18, 29099), (19, 29102), (21, 29138), (22, 29216), (24, 29243), (25, 29261), (27, 29297), (28, 29315), (29, 29378), (31, 29438),

Gene: Erk16_32 Start: 28637, Stop: 29503, Start Num: 1

Candidate Starts for Erk16_32:

(Start: 1 @28637 has 23 MA's), (2, 28769), (5, 28796), (6, 28850), (7, 28877), (9, 28889), (14, 29006), (16, 29024), (17, 29081), (18, 29090), (19, 29093), (21, 29129), (22, 29207), (24, 29234), (25, 29252), (27, 29288), (28, 29306), (29, 29369), (31, 29429),

Gene: Giuseppe_32 Start: 28626, Stop: 29492, Start Num: 1

Candidate Starts for Giuseppe_32:

(Start: 1 @28626 has 23 MA's), (2, 28758), (5, 28785), (6, 28839), (7, 28866), (9, 28878), (14, 28995), (16, 29013), (17, 29070), (18, 29079), (19, 29082), (21, 29118), (22, 29196), (24, 29223), (25, 29241), (27, 29277), (28, 29295), (29, 29358), (31, 29418),

Gene: Gumball_31 Start: 28584, Stop: 29450, Start Num: 1

Candidate Starts for Gumball_31:

(Start: 1 @28584 has 23 MA's), (2, 28716), (5, 28743), (6, 28797), (7, 28824), (9, 28836), (14, 28953), (16, 28971), (17, 29028), (18, 29037), (19, 29040), (21, 29076), (22, 29154), (24, 29181), (25, 29199), (27, 29235), (28, 29253), (29, 29316), (31, 29376),

Gene: Helpful_33 Start: 28634, Stop: 29500, Start Num: 1

Candidate Starts for Helpful_33:

(Start: 1 @28634 has 23 MA's), (2, 28766), (5, 28793), (6, 28847), (7, 28874), (9, 28886), (14, 29003), (16, 29021), (17, 29078), (18, 29087), (19, 29090), (21, 29126), (22, 29204), (24, 29231), (25, 29249), (27, 29285), (28, 29303), (29, 29366), (31, 29426),

Gene: JacoRen57_22 Start: 22778, Stop: 23644, Start Num: 1

Candidate Starts for JacoRen57_22:

(Start: 1 @22778 has 23 MA's), (3, 22919), (4, 22922), (8, 23027), (13, 23099), (16, 23165), (17, 23222), (21, 23270), (23, 23372), (28, 23447), (30, 23522), (32, 23579),

Gene: KandZ_32 Start: 28734, Stop: 29600, Start Num: 1

Candidate Starts for KandZ_32:

(Start: 1 @28734 has 23 MA's), (2, 28866), (5, 28893), (6, 28947), (7, 28974), (9, 28986), (14, 29103), (16, 29121), (17, 29178), (18, 29187), (19, 29190), (21, 29226), (22, 29304), (24, 29331), (25, 29349), (27, 29385), (28, 29403), (29, 29466), (31, 29526),

Gene: Mopey_32 Start: 28634, Stop: 29500, Start Num: 1

Candidate Starts for Mopey_32:

(Start: 1 @28634 has 23 MA's), (2, 28766), (5, 28793), (6, 28847), (7, 28874), (9, 28886), (14, 29003), (16, 29021), (17, 29078), (18, 29087), (19, 29090), (21, 29126), (22, 29204), (24, 29231), (25, 29249), (27, 29285), (28, 29303), (29, 29366), (31, 29426),

Gene: Nova_32 Start: 29061, Stop: 29927, Start Num: 1

Candidate Starts for Nova_32:

(Start: 1 @29061 has 23 MA's), (2, 29193), (5, 29220), (6, 29274), (7, 29301), (9, 29313), (14, 29430), (16, 29448), (17, 29505), (18, 29514), (19, 29517), (21, 29553), (22, 29631), (24, 29658), (25, 29676), (27, 29712), (28, 29730), (29, 29793), (31, 29853),

Gene: PBI1_32 Start: 28565, Stop: 29431, Start Num: 1

Candidate Starts for PBI1_32:

(Start: 1 @28565 has 23 MA's), (2, 28697), (5, 28724), (6, 28778), (7, 28805), (9, 28817), (14, 28934), (16, 28952), (17, 29009), (18, 29018), (19, 29021), (21, 29057), (22, 29135), (24, 29162), (25, 29180), (27, 29216), (28, 29234), (29, 29297), (31, 29357),

Gene: PLOT_33 Start: 28637, Stop: 29503, Start Num: 1

Candidate Starts for PLOT_33:

(Start: 1 @28637 has 23 MA's), (2, 28769), (5, 28796), (6, 28850), (7, 28877), (9, 28889), (14, 29006), (16, 29024), (17, 29081), (18, 29090), (19, 29093), (21, 29129), (22, 29207), (24, 29234), (25, 29252), (27, 29288), (28, 29306), (29, 29369), (31, 29429),

Gene: Penelope2018_32 Start: 28634, Stop: 29500, Start Num: 1

Candidate Starts for Penelope2018_32:

(Start: 1 @28634 has 23 MA's), (2, 28766), (5, 28793), (6, 28847), (7, 28874), (9, 28886), (14, 29003), (16, 29021), (17, 29078), (18, 29087), (19, 29090), (21, 29126), (22, 29204), (24, 29231), (25, 29249), (27, 29285), (28, 29303), (29, 29366), (31, 29426),

Gene: Phalaborwa_32 Start: 28658, Stop: 29524, Start Num: 1

Candidate Starts for Phalaborwa_32:

(Start: 1 @28658 has 23 MA's), (2, 28790), (6, 28871), (7, 28898), (10, 28931), (11, 28943), (12, 28946), (13, 28979), (15, 29042), (16, 29045), (18, 29111), (19, 29114), (20, 29135), (24, 29255), (26, 29288), (31, 29450),

Gene: Prager_32 Start: 28646, Stop: 29512, Start Num: 1

Candidate Starts for Prager_32:

(Start: 1 @28646 has 23 MA's), (2, 28778), (5, 28805), (6, 28859), (7, 28886), (9, 28898), (14, 29015), (16, 29033), (17, 29090), (18, 29099), (19, 29102), (21, 29138), (22, 29216), (24, 29243), (25, 29261), (27, 29297), (28, 29315), (29, 29378), (31, 29438),

Gene: SirHarley_31 Start: 28566, Stop: 29432, Start Num: 1

Candidate Starts for SirHarley_31:

(Start: 1 @28566 has 23 MA's), (2, 28698), (5, 28725), (6, 28779), (7, 28806), (9, 28818), (14, 28935), (16, 28953), (17, 29010), (18, 29019), (19, 29022), (21, 29058), (22, 29136), (24, 29163), (25, 29181), (27, 29217), (28, 29235), (29, 29298), (31, 29358),

Gene: SuperheroCarly_32 Start: 28496, Stop: 29362, Start Num: 1

Candidate Starts for SuperheroCarly_32:

(Start: 1 @28496 has 23 MA's), (2, 28628), (5, 28655), (6, 28709), (7, 28736), (9, 28748), (14, 28865), (16, 28883), (17, 28940), (18, 28949), (19, 28952), (21, 28988), (22, 29066), (24, 29093), (25, 29111), (27, 29147), (28, 29165), (29, 29228), (31, 29288),

Gene: Thoth_32 Start: 28631, Stop: 29497, Start Num: 1

Candidate Starts for Thoth_32:

(Start: 1 @28631 has 23 MA's), (2, 28763), (5, 28790), (6, 28844), (7, 28871), (9, 28883), (14, 29000), (16, 29018), (17, 29075), (18, 29084), (19, 29087), (21, 29123), (22, 29201), (24, 29228), (25, 29246), (27, 29282), (28, 29300), (29, 29363), (31, 29423),

Gene: Troll4_32 Start: 28635, Stop: 29501, Start Num: 1

Candidate Starts for Troll4_32:

(Start: 1 @28635 has 23 MA's), (2, 28767), (5, 28794), (6, 28848), (7, 28875), (9, 28887), (14, 29004), (16, 29022), (17, 29079), (18, 29088), (19, 29091), (21, 29127), (22, 29205), (24, 29232), (25, 29250), (27, 29286), (28, 29304), (29, 29367), (31, 29427),

Gene: Visconti_32 Start: 28644, Stop: 29510, Start Num: 1

Candidate Starts for Visconti_32:

(Start: 1 @28644 has 23 MA's), (2, 28776), (5, 28803), (6, 28857), (7, 28884), (9, 28896), (14, 29013), (16, 29031), (17, 29088), (18, 29097), (19, 29100), (21, 29136), (22, 29214), (24, 29241), (25, 29259), (27, 29295), (28, 29313), (29, 29376), (31, 29436),

Gene: WaldoWhy_33 Start: 28640, Stop: 29506, Start Num: 1

Candidate Starts for WaldoWhy_33:

(Start: 1 @28640 has 23 MA's), (2, 28772), (5, 28799), (6, 28853), (7, 28880), (9, 28892), (14, 29009), (16, 29027), (17, 29084), (18, 29093), (19, 29096), (21, 29132), (22, 29210), (24, 29237), (25, 29255), (27, 29291), (28, 29309), (29, 29372), (31, 29432),

