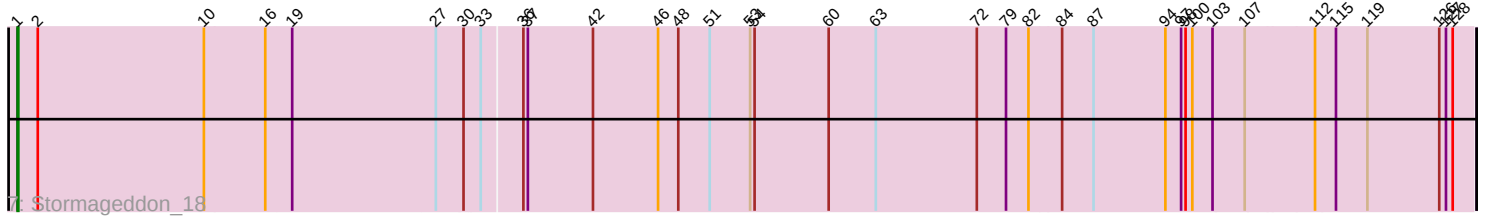
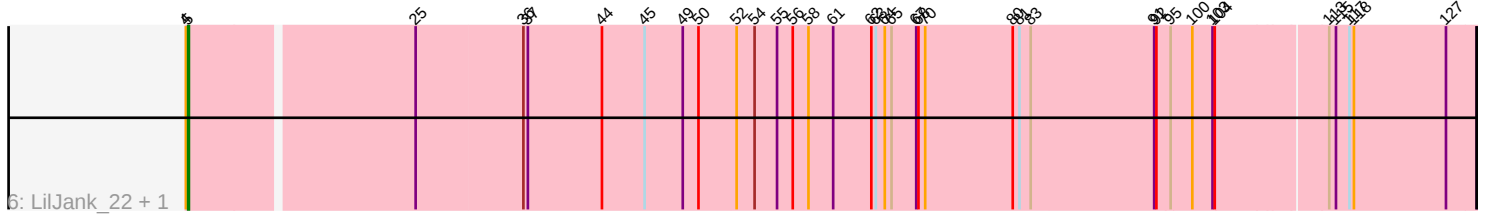
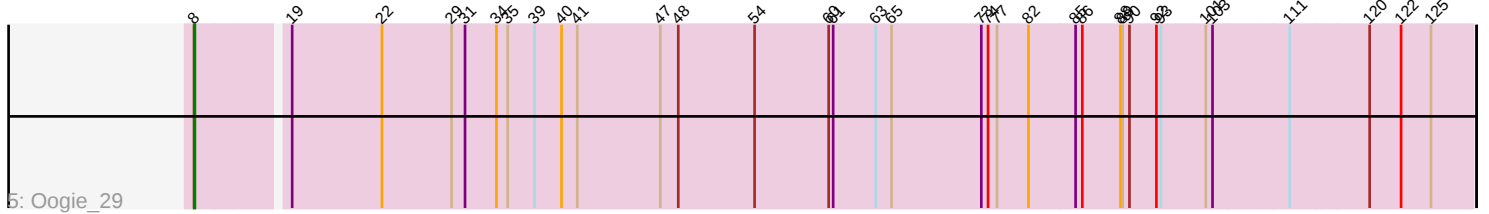
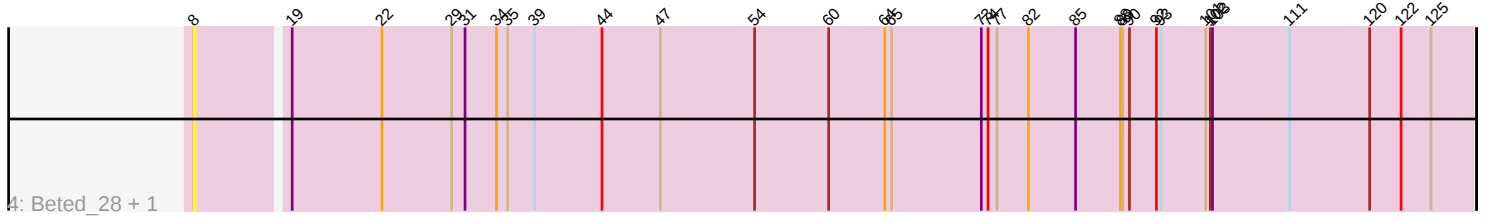
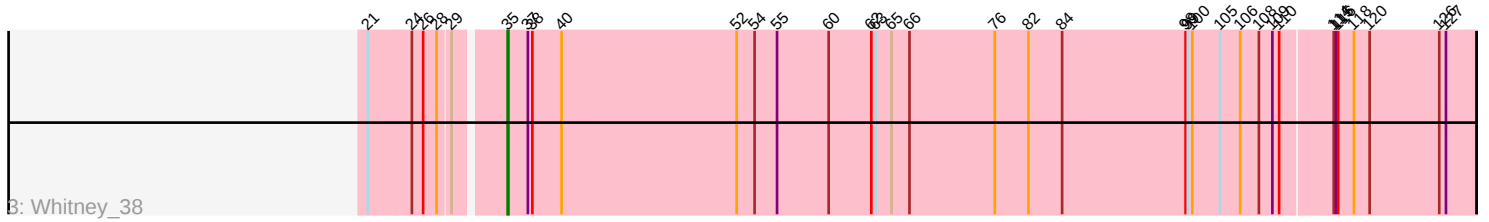
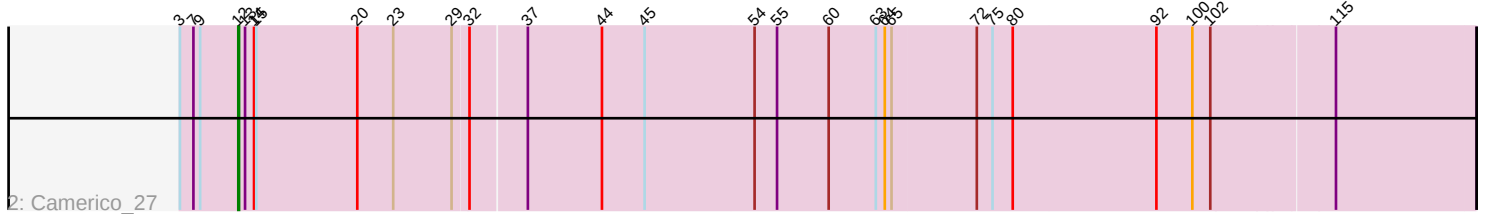
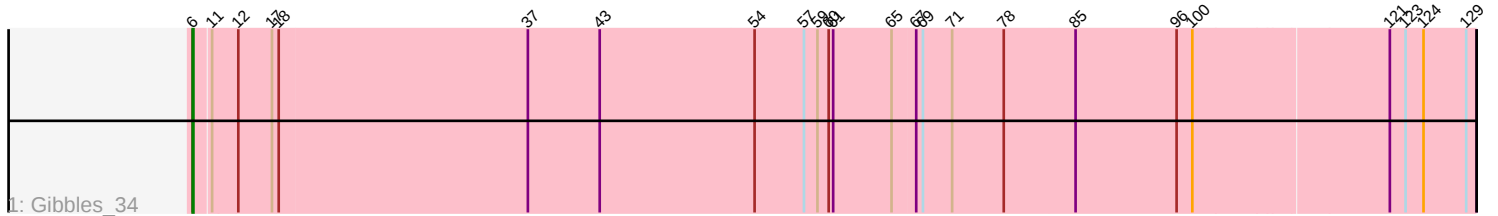


Pham 331520



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 331520 Report

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

Pham number 331520 has 9 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Gibbles_34
- Track 2 : Camerico_27
- Track 3 : Whitney_38
- Track 4 : Beted_28, Lenoshki_28
- Track 5 : Oogie_29
- Track 6 : LilJank_22, Trax_22
- Track 7 : Stormageddon_18

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 2 of the 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- LilJank_22, Trax_22,

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

•

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

- Beted_28, Camerico_27, Gibbles_34, Lenoshki_28, Oogie_29, Stormageddon_18, Whitney_38,

Summary by start number:

Start 1:

- Found in 1 of 9 (11.1%) of genes in pham
- Manual Annotations of this start: 1 of 7
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Stormageddon_18 (DX),

Start 5:

- Found in 2 of 9 (22.2%) of genes in pham
- Manual Annotations of this start: 2 of 7

- Called 100.0% of time when present
- Phage (with cluster) where this start called: LilJank_22 (DU2), Trax_22 (DU2),

Start 6:

- Found in 1 of 9 (11.1%) of genes in pham
- Manual Annotations of this start: 1 of 7
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Gibbles_34 (CX),

Start 8:

- Found in 3 of 9 (33.3%) of genes in pham
- Manual Annotations of this start: 1 of 7
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Beted_28 (DQ), Lenoshki_28 (DQ), Oogie_29 (DQ),

Start 12:

- Found in 2 of 9 (22.2%) of genes in pham
- Manual Annotations of this start: 1 of 7
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Camerico_27 (DF4),

Start 35:

- Found in 4 of 9 (44.4%) of genes in pham
- Manual Annotations of this start: 1 of 7
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Whitney_38 (DN1),

Summary by clusters:

There are 6 clusters represented in this pham: DF4, CX, DN1, DX, DU2, DQ,

Info for manual annotations of cluster CX:

- Start number 6 was manually annotated 1 time for cluster CX.

Info for manual annotations of cluster DF4:

- Start number 12 was manually annotated 1 time for cluster DF4.

Info for manual annotations of cluster DN1:

- Start number 35 was manually annotated 1 time for cluster DN1.

Info for manual annotations of cluster DQ:

- Start number 8 was manually annotated 1 time for cluster DQ.

Info for manual annotations of cluster DU2:

- Start number 5 was manually annotated 2 times for cluster DU2.

Info for manual annotations of cluster DX:

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

Gene Information:

Gene: Beted_28 Start: 17323, Stop: 18984, Start Num: 8

Candidate Starts for Beted_28:

(Start: 8 @17323 has 1 MA's), (19, 17437), (22, 17557), (29, 17650), (31, 17668), (34, 17704), (Start: 35 @17719 has 1 MA's), (39, 17755), (44, 17845), (47, 17923), (54, 18046), (60, 18145), (64, 18220), (65, 18229), (73, 18349), (74, 18358), (77, 18370), (82, 18412), (85, 18472), (88, 18532), (89, 18535), (90, 18544), (92, 18580), (93, 18586), (101, 18646), (102, 18652), (103, 18655), (111, 18754), (120, 18856), (122, 18898), (125, 18934),

Gene: Camerico_27 Start: 32001, Stop: 33617, Start Num: 12

Candidate Starts for Camerico_27:

(3, 31923), (7, 31941), (9, 31950), (Start: 12 @32001 has 1 MA's), (13, 32010), (14, 32022), (15, 32025), (20, 32160), (23, 32208), (29, 32286), (32, 32304), (37, 32376), (44, 32475), (45, 32532), (54, 32676), (55, 32706), (60, 32775), (63, 32838), (64, 32850), (65, 32859), (72, 32970), (75, 32991), (80, 33018), (92, 33207), (100, 33255), (102, 33279), (115, 33435),

Gene: Gibbles_34 Start: 37129, Stop: 38808, Start Num: 6

Candidate Starts for Gibbles_34:

(Start: 6 @37129 has 1 MA's), (11, 37150), (Start: 12 @37183 has 1 MA's), (17, 37228), (18, 37234), (37, 37564), (43, 37660), (54, 37864), (57, 37930), (59, 37948), (60, 37963), (61, 37969), (65, 38047), (67, 38077), (69, 38086), (71, 38125), (78, 38194), (85, 38287), (96, 38422), (100, 38443), (121, 38695), (123, 38716), (124, 38740), (129, 38797),

Gene: Lenoshki_28 Start: 17323, Stop: 18984, Start Num: 8

Candidate Starts for Lenoshki_28:

(Start: 8 @17323 has 1 MA's), (19, 17437), (22, 17557), (29, 17650), (31, 17668), (34, 17704), (Start: 35 @17719 has 1 MA's), (39, 17755), (44, 17845), (47, 17923), (54, 18046), (60, 18145), (64, 18220), (65, 18229), (73, 18349), (74, 18358), (77, 18370), (82, 18412), (85, 18472), (88, 18532), (89, 18535), (90, 18544), (92, 18580), (93, 18586), (101, 18646), (102, 18652), (103, 18655), (111, 18754), (120, 18856), (122, 18898), (125, 18934),

Gene: LilJank_22 Start: 12938, Stop: 14617, Start Num: 5

Candidate Starts for LilJank_22:

(4, 12935), (Start: 5 @12938 has 2 MA's), (25, 13226), (36, 13367), (37, 13373), (44, 13472), (45, 13529), (49, 13580), (50, 13601), (52, 13649), (54, 13673), (55, 13703), (56, 13724), (58, 13745), (61, 13778), (62, 13829), (63, 13835), (64, 13847), (65, 13856), (67, 13889), (68, 13892), (70, 13901), (80, 14018), (81, 14027), (83, 14042), (91, 14204), (92, 14207), (95, 14225), (100, 14252), (103, 14279), (104, 14282), (113, 14423), (115, 14432), (117, 14450), (118, 14456), (127, 14579),

Gene: Oogie_29 Start: 17349, Stop: 19010, Start Num: 8

Candidate Starts for Oogie_29:

(Start: 8 @17349 has 1 MA's), (19, 17463), (22, 17583), (29, 17676), (31, 17694), (34, 17730), (Start: 35 @17745 has 1 MA's), (39, 17781), (40, 17817), (41, 17838), (47, 17949), (48, 17973), (54, 18072), (60, 18171), (61, 18177), (63, 18234), (65, 18255), (73, 18375), (74, 18384), (77, 18396), (82, 18438), (85, 18498), (86, 18507), (88, 18558), (89, 18561), (90, 18570), (92, 18606), (93, 18612), (101, 18672), (103, 18681), (111, 18780), (120, 18882), (122, 18924), (125, 18960),

Gene: Stormageddon_18 Start: 21743, Stop: 23659, Start Num: 1

Candidate Starts for Stormageddon_18:

(Start: 1 @21743 has 1 MA's), (2, 21770), (10, 21992), (16, 22073), (19, 22106), (27, 22295), (30, 22331), (33, 22349), (36, 22400), (37, 22406), (42, 22493), (46, 22580), (48, 22607), (51, 22649), (53, 22703), (54, 22709), (60, 22808), (63, 22871), (72, 23006), (79, 23045), (82, 23075), (84, 23117), (87, 23159), (94, 23255), (97, 23276), (98, 23282), (100, 23291), (103, 23318), (107, 23360), (112, 23450), (115, 23477), (119, 23519), (126, 23615), (127, 23624), (128, 23633),

Gene: Trax_22 Start: 12887, Stop: 14566, Start Num: 5

Candidate Starts for Trax_22:

(4, 12884), (Start: 5 @12887 has 2 MA's), (25, 13175), (36, 13316), (37, 13322), (44, 13421), (45, 13478), (49, 13529), (50, 13550), (52, 13598), (54, 13622), (55, 13652), (56, 13673), (58, 13694), (61, 13727), (62, 13778), (63, 13784), (64, 13796), (65, 13805), (67, 13838), (68, 13841), (70, 13850), (80, 13967), (81, 13976), (83, 13991), (91, 14153), (92, 14156), (95, 14174), (100, 14201), (103, 14228), (104, 14231), (113, 14372), (115, 14381), (117, 14399), (118, 14405), (127, 14528),

Gene: Whitney_38 Start: 29488, Stop: 30759, Start Num: 35

Candidate Starts for Whitney_38:

(21, 29329), (24, 29383), (26, 29395), (28, 29413), (29, 29428), (Start: 35 @29488 has 1 MA's), (37, 29515), (38, 29521), (40, 29560), (52, 29791), (54, 29815), (55, 29845), (60, 29914), (62, 29971), (63, 29977), (65, 29998), (66, 30019), (76, 30133), (82, 30178), (84, 30220), (98, 30385), (99, 30388), (100, 30394), (105, 30430), (106, 30457), (108, 30481), (109, 30499), (110, 30508), (114, 30571), (115, 30574), (116, 30577), (118, 30598), (120, 30619), (126, 30712), (127, 30721),