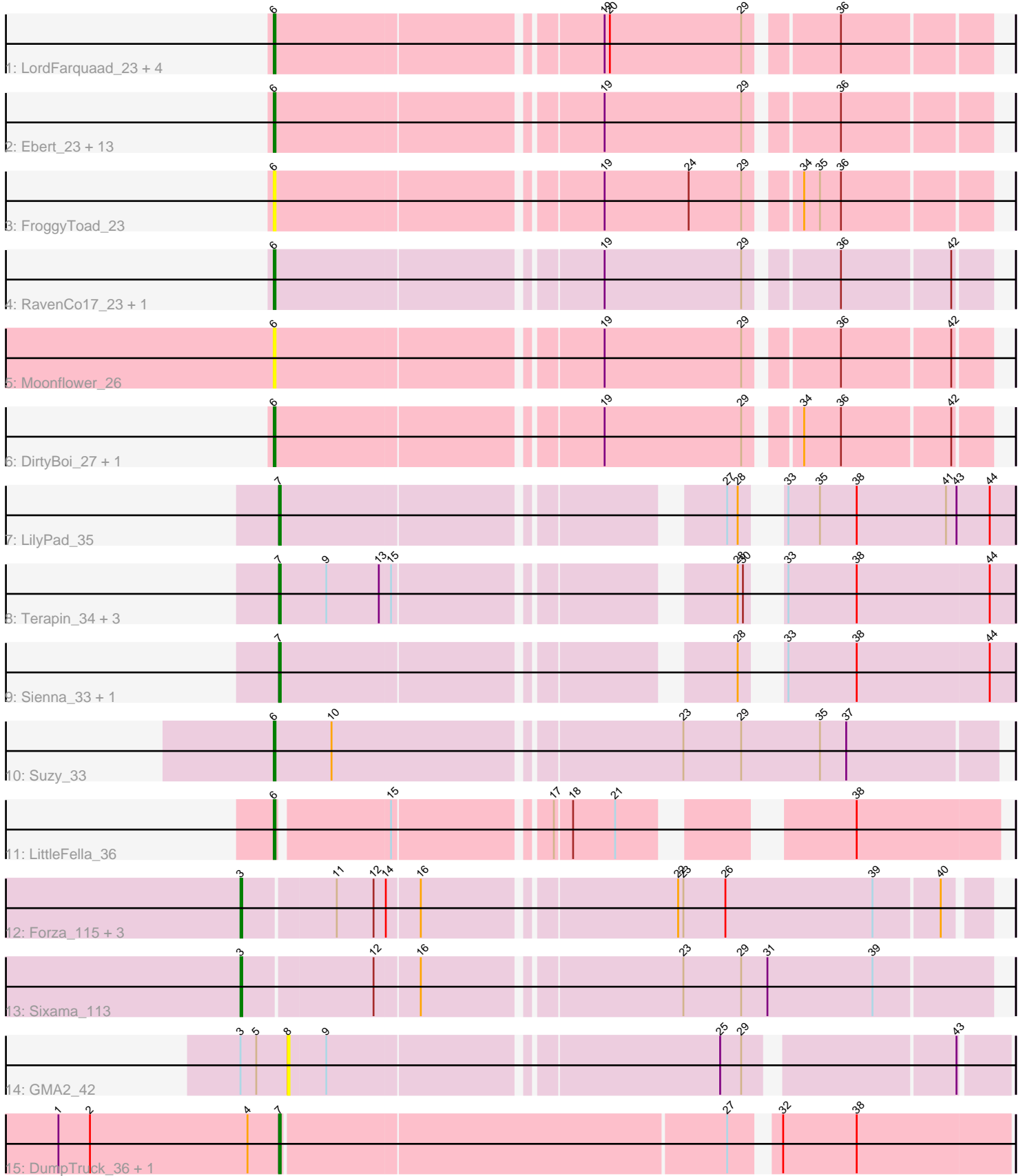


Pham 308840



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 308840 Report

This analysis was run 06/27/26 on database version 652.

Pham number 308840 has 42 members, 5 are drafts.

Phages represented in each track:

- Track 1 : LordFarquaad_23, Bjaner7_23, Attis_23, Yeet412_23, SoilAssassin_23
- Track 2 : Ebert_23, Gizermo_23, Sproutie_23, Sahara_22, Yinzer_23, Whiteclaw_23, Mocha12_23, Savage_23, Jalleen_23, Haley23_23, GemG_23, Clap_23, TuertoX_23, Cynthia_23
- Track 3 : FroggyToad_23
- Track 4 : RavenCo17_23, Vasanti_22
- Track 5 : Moonflower_26
- Track 6 : DirtyBoi_27, Hedwig_27
- Track 7 : LilyPad_35
- Track 8 : Terapin_34, Djokovic_33, BiteSize_33, Beyoncage_33
- Track 9 : Sienna_33, Madi_33
- Track 10 : Suzy_33
- Track 11 : LittleFella_36
- Track 12 : Forza_115, BlueNGold_114, Boopy_115, Mareelih_113
- Track 13 : Sixama_113
- Track 14 : GMA2_42
- Track 15 : DumpTruck_36, Xenia2_37

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

The start number called the most often in the published annotations is 6, it was called in 23 of the 37 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Attis_23, Bjaner7_23, Clap_23, Cynthia_23, DirtyBoi_27, Ebert_23, FroggyToad_23, GemG_23, Gizermo_23, Haley23_23, Hedwig_27, Jalleen_23, LittleFella_36, LordFarquaad_23, Mocha12_23, Moonflower_26, RavenCo17_23, Sahara_22, Savage_23, SoilAssassin_23, Sproutie_23, Suzy_33, TuertoX_23, Vasanti_22, Whiteclaw_23, Yeet412_23, Yinzer_23,

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

-

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

- Beyoncage_33, BiteSize_33, BlueNGold_114, Boopy_115, Djokovic_33, DumpTruck_36, Forza_115, GMA2_42, LilyPad_35, Madi_33, Mareelih_113, Sienna_33, Sixama_113, Terapin_34, Xenia2_37,

Summary by start number:

Start 3:

- Found in 6 of 42 (14.3%) of genes in pham
- Manual Annotations of this start: 5 of 37
- Called 83.3% of time when present
- Phage (with cluster) where this start called: BlueNGold_114 (DS), Boopy_115 (DS), Forza_115 (DS), Mareelih_113 (DS), Sixama_113 (DS),

Start 6:

- Found in 27 of 42 (64.3%) of genes in pham
- Manual Annotations of this start: 23 of 37
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Attis_23 (CZ2), Bjanes7_23 (CZ2), Clap_23 (CZ2), Cynthia_23 (CZ2), DirtyBoi_27 (DB), Ebert_23 (CZ2), FroggyToad_23 (CZ2), GemG_23 (CZ2), Gizermo_23 (CZ2), Haley23_23 (CZ2), Hedwig_27 (DB), Jalleen_23 (CZ2), LittleFella_36 (DG2), LordFarquaad_23 (CZ2), Mocha12_23 (CZ2), Moonflower_26 (DB), RavenCo17_23 (CZ8), Sahara_22 (CZ2), Savage_23 (CZ2), SoilAssassin_23 (CZ2), Sproutie_23 (CZ2), Suzy_33 (DG1), TuertoX_23 (CZ2), Vasanti_22 (CZ2), Whiteclaw_23 (CZ2), Yeet412_23 (CZ2), Yinzer_23 (CZ2),

Start 7:

- Found in 9 of 42 (21.4%) of genes in pham
- Manual Annotations of this start: 9 of 37
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Beyoncage_33 (DG1), BiteSize_33 (DG1), Djokovic_33 (DG1), DumpTruck_36 (DV), LilyPad_35 (DG1), Madi_33 (DG1), Sienna_33 (DG1), Terapin_34 (DG1), Xenia2_37 (DV),

Start 8:

- Found in 1 of 42 (2.4%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GMA2_42 (DS),

Summary by clusters:

There are 7 clusters represented in this pham: CZ8, CZ2, DB, DG2, DG1, DV, DS,

Info for manual annotations of cluster CZ2:

- Start number 6 was manually annotated 18 times for cluster CZ2.

Info for manual annotations of cluster CZ8:

- Start number 6 was manually annotated 1 time for cluster CZ8.

Info for manual annotations of cluster DB:

- Start number 6 was manually annotated 2 times for cluster DB.

Info for manual annotations of cluster DG1:

- Start number 6 was manually annotated 1 time for cluster DG1.
- Start number 7 was manually annotated 7 times for cluster DG1.

Info for manual annotations of cluster DG2:

- Start number 6 was manually annotated 1 time for cluster DG2.

Info for manual annotations of cluster DS:

- Start number 3 was manually annotated 5 times for cluster DS.

Info for manual annotations of cluster DV:

- Start number 7 was manually annotated 2 times for cluster DV.

Gene Information:

Gene: Attis_23 Start: 19417, Stop: 19794, Start Num: 6

Candidate Starts for Attis_23:

(Start: 6 @19417 has 23 MA's), (19, 19591), (20, 19594), (29, 19669), (36, 19714),

Gene: Beyoncage_33 Start: 28465, Stop: 28833, Start Num: 7

Candidate Starts for Beyoncage_33:

(Start: 7 @28465 has 9 MA's), (9, 28492), (13, 28522), (15, 28528), (28, 28696), (30, 28699), (33, 28705), (38, 28744), (44, 28819),

Gene: BiteSize_33 Start: 28465, Stop: 28833, Start Num: 7

Candidate Starts for BiteSize_33:

(Start: 7 @28465 has 9 MA's), (9, 28492), (13, 28522), (15, 28528), (28, 28696), (30, 28699), (33, 28705), (38, 28744), (44, 28819),

Gene: Bjanes7_23 Start: 19417, Stop: 19794, Start Num: 6

Candidate Starts for Bjanes7_23:

(Start: 6 @19417 has 23 MA's), (19, 19591), (20, 19594), (29, 19669), (36, 19714),

Gene: BlueNGold_114 Start: 70597, Stop: 70998, Start Num: 3

Candidate Starts for BlueNGold_114:

(Start: 3 @70597 has 5 MA's), (11, 70648), (12, 70669), (14, 70675), (16, 70693), (22, 70828), (23, 70831), (26, 70855), (39, 70939), (40, 70975),

Gene: Boopy_115 Start: 70609, Stop: 71010, Start Num: 3

Candidate Starts for Boopy_115:

(Start: 3 @70609 has 5 MA's), (11, 70660), (12, 70681), (14, 70687), (16, 70705), (22, 70840), (23, 70843), (26, 70867), (39, 70951), (40, 70987),

Gene: Clap_23 Start: 19424, Stop: 19801, Start Num: 6

Candidate Starts for Clap_23:

(Start: 6 @19424 has 23 MA's), (19, 19598), (29, 19676), (36, 19721),

Gene: Cynthia_23 Start: 19424, Stop: 19801, Start Num: 6

Candidate Starts for Cynthia_23:

(Start: 6 @19424 has 23 MA's), (19, 19598), (29, 19676), (36, 19721),

Gene: DirtyBoi_27 Start: 22067, Stop: 22444, Start Num: 6
Candidate Starts for DirtyBoi_27:
(Start: 6 @22067 has 23 MA's), (19, 22241), (29, 22319), (34, 22343), (36, 22364), (42, 22424),

Gene: Djokovic_33 Start: 28464, Stop: 28832, Start Num: 7
Candidate Starts for Djokovic_33:
(Start: 7 @28464 has 9 MA's), (9, 28491), (13, 28521), (15, 28527), (28, 28695), (30, 28698), (33, 28704), (38, 28743), (44, 28818),

Gene: DumpTruck_36 Start: 30876, Stop: 31271, Start Num: 7
Candidate Starts for DumpTruck_36:
(1, 30750), (2, 30768), (4, 30858), (Start: 7 @30876 has 9 MA's), (27, 31122), (32, 31143), (38, 31185),

Gene: Ebert_23 Start: 19424, Stop: 19801, Start Num: 6
Candidate Starts for Ebert_23:
(Start: 6 @19424 has 23 MA's), (19, 19598), (29, 19676), (36, 19721),

Gene: Forza_115 Start: 70525, Stop: 70926, Start Num: 3
Candidate Starts for Forza_115:
(Start: 3 @70525 has 5 MA's), (11, 70576), (12, 70597), (14, 70603), (16, 70621), (22, 70756), (23, 70759), (26, 70783), (39, 70867), (40, 70903),

Gene: FroggyToad_23 Start: 19489, Stop: 19866, Start Num: 6
Candidate Starts for FroggyToad_23:
(Start: 6 @19489 has 23 MA's), (19, 19663), (24, 19711), (29, 19741), (34, 19765), (35, 19774), (36, 19786),

Gene: GMA2_42 Start: 43216, Stop: 43593, Start Num: 8
Candidate Starts for GMA2_42:
(Start: 3 @43189 has 5 MA's), (5, 43198), (8, 43216), (9, 43237), (25, 43447), (29, 43459), (43, 43567),

Gene: GemG_23 Start: 19424, Stop: 19801, Start Num: 6
Candidate Starts for GemG_23:
(Start: 6 @19424 has 23 MA's), (19, 19598), (29, 19676), (36, 19721),

Gene: Gizermo_23 Start: 19424, Stop: 19801, Start Num: 6
Candidate Starts for Gizermo_23:
(Start: 6 @19424 has 23 MA's), (19, 19598), (29, 19676), (36, 19721),

Gene: Haley23_23 Start: 19424, Stop: 19801, Start Num: 6
Candidate Starts for Haley23_23:
(Start: 6 @19424 has 23 MA's), (19, 19598), (29, 19676), (36, 19721),

Gene: Hedwig_27 Start: 22063, Stop: 22440, Start Num: 6
Candidate Starts for Hedwig_27:
(Start: 6 @22063 has 23 MA's), (19, 22237), (29, 22315), (34, 22339), (36, 22360), (42, 22420),

Gene: Jalleen_23 Start: 19063, Stop: 19440, Start Num: 6
Candidate Starts for Jalleen_23:
(Start: 6 @19063 has 23 MA's), (19, 19237), (29, 19315), (36, 19360),

Gene: LilyPad_35 Start: 29271, Stop: 29639, Start Num: 7
Candidate Starts for LilyPad_35:

(Start: 7 @29271 has 9 MA's), (27, 29496), (28, 29502), (33, 29511), (35, 29529), (38, 29550), (41, 29601), (43, 29607), (44, 29625),

Gene: LittleFella_36 Start: 31066, Stop: 31422, Start Num: 6

Candidate Starts for LittleFella_36:

(Start: 6 @31066 has 23 MA's), (15, 31126), (17, 31207), (18, 31216), (21, 31240), (38, 31342),

Gene: LordFarquaad_23 Start: 19417, Stop: 19794, Start Num: 6

Candidate Starts for LordFarquaad_23:

(Start: 6 @19417 has 23 MA's), (19, 19591), (20, 19594), (29, 19669), (36, 19714),

Gene: Madi_33 Start: 28465, Stop: 28833, Start Num: 7

Candidate Starts for Madi_33:

(Start: 7 @28465 has 9 MA's), (28, 28696), (33, 28705), (38, 28744), (44, 28819),

Gene: Mareelih_113 Start: 70027, Stop: 70428, Start Num: 3

Candidate Starts for Mareelih_113:

(Start: 3 @70027 has 5 MA's), (11, 70078), (12, 70099), (14, 70105), (16, 70123), (22, 70258), (23, 70261), (26, 70285), (39, 70369), (40, 70405),

Gene: Mocha12_23 Start: 19424, Stop: 19801, Start Num: 6

Candidate Starts for Mocha12_23:

(Start: 6 @19424 has 23 MA's), (19, 19598), (29, 19676), (36, 19721),

Gene: Moonflower_26 Start: 22164, Stop: 22541, Start Num: 6

Candidate Starts for Moonflower_26:

(Start: 6 @22164 has 23 MA's), (19, 22338), (29, 22416), (36, 22461), (42, 22521),

Gene: RavenCo17_23 Start: 20316, Stop: 20693, Start Num: 6

Candidate Starts for RavenCo17_23:

(Start: 6 @20316 has 23 MA's), (19, 20490), (29, 20568), (36, 20613), (42, 20673),

Gene: Sahara_22 Start: 19096, Stop: 19473, Start Num: 6

Candidate Starts for Sahara_22:

(Start: 6 @19096 has 23 MA's), (19, 19270), (29, 19348), (36, 19393),

Gene: Savage_23 Start: 19424, Stop: 19801, Start Num: 6

Candidate Starts for Savage_23:

(Start: 6 @19424 has 23 MA's), (19, 19598), (29, 19676), (36, 19721),

Gene: Sienna_33 Start: 28465, Stop: 28833, Start Num: 7

Candidate Starts for Sienna_33:

(Start: 7 @28465 has 9 MA's), (28, 28696), (33, 28705), (38, 28744), (44, 28819),

Gene: Sixama_113 Start: 70065, Stop: 70472, Start Num: 3

Candidate Starts for Sixama_113:

(Start: 3 @70065 has 5 MA's), (12, 70137), (16, 70161), (23, 70299), (29, 70332), (31, 70347), (39, 70407),

Gene: SoilAssassin_23 Start: 19417, Stop: 19794, Start Num: 6

Candidate Starts for SoilAssassin_23:

(Start: 6 @19417 has 23 MA's), (19, 19591), (20, 19594), (29, 19669), (36, 19714),

Gene: Sproutie_23 Start: 19424, Stop: 19801, Start Num: 6
Candidate Starts for Sproutie_23:
(Start: 6 @19424 has 23 MA's), (19, 19598), (29, 19676), (36, 19721),

Gene: Suzy_33 Start: 29561, Stop: 29959, Start Num: 6
Candidate Starts for Suzy_33:
(Start: 6 @29561 has 23 MA's), (10, 29594), (23, 29783), (29, 29816), (35, 29861), (37, 29876),

Gene: Terapin_34 Start: 28466, Stop: 28834, Start Num: 7
Candidate Starts for Terapin_34:
(Start: 7 @28466 has 9 MA's), (9, 28493), (13, 28523), (15, 28529), (28, 28697), (30, 28700), (33, 28706), (38, 28745), (44, 28820),

Gene: TuertoX_23 Start: 19424, Stop: 19801, Start Num: 6
Candidate Starts for TuertoX_23:
(Start: 6 @19424 has 23 MA's), (19, 19598), (29, 19676), (36, 19721),

Gene: Vasanti_22 Start: 18978, Stop: 19355, Start Num: 6
Candidate Starts for Vasanti_22:
(Start: 6 @18978 has 23 MA's), (19, 19152), (29, 19230), (36, 19275), (42, 19335),

Gene: Whiteclaw_23 Start: 19424, Stop: 19801, Start Num: 6
Candidate Starts for Whiteclaw_23:
(Start: 6 @19424 has 23 MA's), (19, 19598), (29, 19676), (36, 19721),

Gene: Xenia2_37 Start: 30921, Stop: 31316, Start Num: 7
Candidate Starts for Xenia2_37:
(1, 30795), (2, 30813), (4, 30903), (Start: 7 @30921 has 9 MA's), (27, 31167), (32, 31188), (38, 31230),

Gene: Yeet412_23 Start: 19417, Stop: 19794, Start Num: 6
Candidate Starts for Yeet412_23:
(Start: 6 @19417 has 23 MA's), (19, 19591), (20, 19594), (29, 19669), (36, 19714),

Gene: Yinzer_23 Start: 19424, Stop: 19801, Start Num: 6
Candidate Starts for Yinzer_23:
(Start: 6 @19424 has 23 MA's), (19, 19598), (29, 19676), (36, 19721),