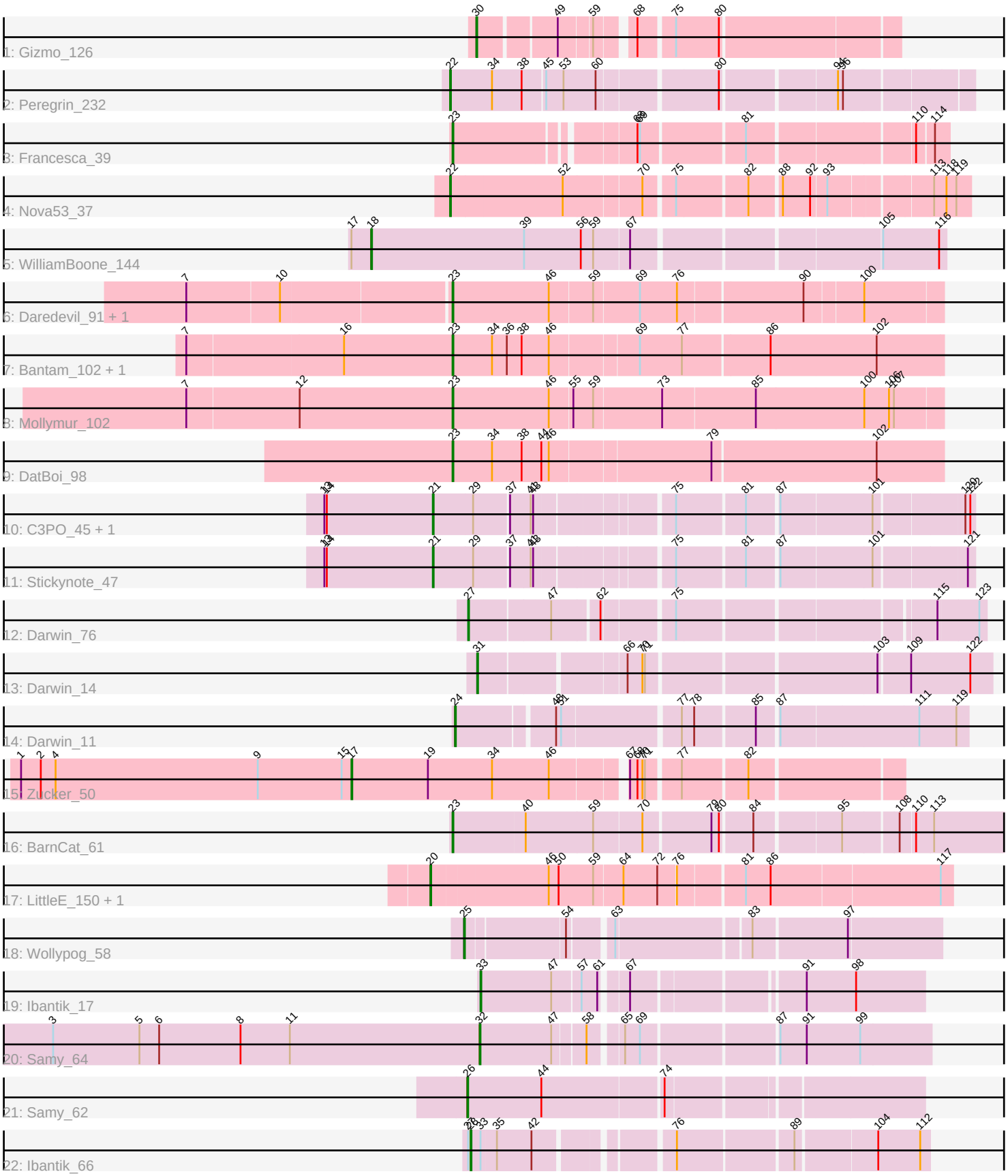
Pham 295017


1: Gizmo_126
2: Peregrin_232
3: Francesca_39
4: Nova53_37
5: WilliamBoone_144
6: Daredevil_91 + 1
7: Bantam_102 + 1
8: Mollymur_102
9: DatBoi_98
10: C3PO_45 + 1
11: Stickynote_47
12: Darwin_76
13: Darwin_14
14: Darwin_11
15: Zucker_50
16: BarnCat_61
17: LittleE_150 + 1
18: Wollypog_58
19: Ibantik_17
20: Samy_64
21: Samy_62
22: Ibantik_66

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 295017 Report

This analysis was run 04/18/26 on database version 643.

Pham number 295017 has 26 members, 0 are drafts.

Phages represented in each track:
- Track 1 : Gizmo_126
- Track 2 : Peregrin_232
- Track 3 : Francesca_39
- Track 4 : Nova53_37
- Track 5 : WilliamBoone_144
- Track 6 : Daredevil_91, Towmatter_90
- Track 7 : Bantam_102, SpeedDemon_1040
- Track 8 : Mollymur_102
- Track 9 : DatBoi_98
- Track 10 : C3PO_45, Cruella_45
- Track 11 : Stickynote_47
- Track 12 : Darwin_76
- Track 13 : Darwin_14
- Track 14 : Darwin_11
- Track 15 : Zucker_50
- Track 16 : BarnCat_61
- Track 17 : LittleE_150, Omega_154
- Track 18 : Wollypog_58
- Track 19 : Ibantik_17
- Track 20 : Samy_64
- Track 21 : Samy_62
- Track 22 : Ibantik_66

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

The start number called the most often in the published annotations is 23, it was called in 8 of the 26 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
- Bantam_102, BarnCat_61, Daredevil_91, DatBoi_98, Francesca_39, Mollymur_102, SpeedDemon_1040, Towmatter_90,

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

Genes that do not have the "Most Annotated" start:
• C3PO_45, Cruella_45, Darwin_11, Darwin_14, Darwin_76, Gizmo_126, Ibantik_17, Ibantik_66, LittleE_150, Nova53_37, Omega_154, Peregrin_232, Samy_62, Samy_64, Stickynote_47, WilliamBoone_144, Wollypog_58, Zucker_50,

Summary by start number:

Start 17:
• Found in 2 of 26 (7.7%) of genes in pham
• Manual Annotations of this start: 1 of 26
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Zucker_50 (FN),

Start 18:
• Found in 1 of 26 (3.8%) of genes in pham
• Manual Annotations of this start: 1 of 26
• Called 100.0% of time when present
• Phage (with cluster) where this start called: WilliamBoone_144 (CQ1),

Start 20:
• Found in 2 of 26 (7.7%) of genes in pham
• Manual Annotations of this start: 2 of 26
• Called 100.0% of time when present
• Phage (with cluster) where this start called: LittleE_150 (J), Omega_154 (J),

Start 21:
• Found in 3 of 26 (11.5%) of genes in pham
• Manual Annotations of this start: 3 of 26
• Called 100.0% of time when present
• Phage (with cluster) where this start called: C3PO_45 (EN), Cruella_45 (EN), Stickynote_47 (EN),

Start 22:
• Found in 2 of 26 (7.7%) of genes in pham
• Manual Annotations of this start: 2 of 26
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Nova53_37 (CG), Peregrin_232 (CB),

Start 23:
• Found in 8 of 26 (30.8%) of genes in pham
• Manual Annotations of this start: 8 of 26
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bantam_102 (DL), BarnCat_61 (GB), Daredevil_91 (DL), DatBoi_98 (DL), Francesca_39 (CG), Mollymur_102 (DL), SpeedDemon_1040 (DL), Towmatter_90 (DL),

Start 24:
• Found in 1 of 26 (3.8%) of genes in pham
• Manual Annotations of this start: 1 of 26
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Darwin_11 (EN),

Start 25:
• Found in 1 of 26 (3.8%) of genes in pham
• Manual Annotations of this start: 1 of 26
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Wollypog_58 (singleton),

Start 26:
• Found in 1 of 26 (3.8%) of genes in pham
• Manual Annotations of this start: 1 of 26
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Samy_62 (singleton),

Start 27:
• Found in 2 of 26 (7.7%) of genes in pham
• Manual Annotations of this start: 1 of 26
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Darwin_76 (EN),

Start 28:
• Found in 1 of 26 (3.8%) of genes in pham
• Manual Annotations of this start: 1 of 26
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ibantik_66 (singleton),

Start 30:
• Found in 1 of 26 (3.8%) of genes in pham
• Manual Annotations of this start: 1 of 26
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Gizmo_126 (C1),

Start 31:
• Found in 1 of 26 (3.8%) of genes in pham
• Manual Annotations of this start: 1 of 26
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Darwin_14 (EN),

Start 32:
• Found in 1 of 26 (3.8%) of genes in pham
• Manual Annotations of this start: 1 of 26
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Samy_64 (singleton),

Start 33:
• Found in 2 of 26 (7.7%) of genes in pham
• Manual Annotations of this start: 1 of 26
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Ibantik_17 (singleton),

Summary by clusters:

There are 10 clusters represented in this pham: singleton, EN, CB, J, CG, DL, GB, CQ1, C1, FN,

Info for manual annotations of cluster C1:
•Start number 30 was manually annotated 1 time for cluster C1.

Info for manual annotations of cluster CB:
•Start number 22 was manually annotated 1 time for cluster CB.

Info for manual annotations of cluster CG:
•Start number 22 was manually annotated 1 time for cluster CG.
•Start number 23 was manually annotated 1 time for cluster CG.

Info for manual annotations of cluster CQ1:
•Start number 18 was manually annotated 1 time for cluster CQ1.

Info for manual annotations of cluster DL:
•Start number 23 was manually annotated 6 times for cluster DL.

Info for manual annotations of cluster EN:
•Start number 21 was manually annotated 3 times for cluster EN.
•Start number 24 was manually annotated 1 time for cluster EN.
•Start number 27 was manually annotated 1 time for cluster EN.
•Start number 31 was manually annotated 1 time for cluster EN.

Info for manual annotations of cluster FN:
•Start number 17 was manually annotated 1 time for cluster FN.

Info for manual annotations of cluster GB:
•Start number 23 was manually annotated 1 time for cluster GB.

Info for manual annotations of cluster J:
•Start number 20 was manually annotated 2 times for cluster J.

Gene Information:

Gene: Bantam_102 Start: 67594, Stop: 68172, Start Num: 23
Candidate Starts for Bantam_102:
(7, 67276), (16, 67462), (Start: 23 @67594 has 8 MA's), (34, 67642), (36, 67660), (38, 67678), (46, 67711), (69, 67813), (77, 67864), (86, 67966), (102, 68092),

Gene: BarnCat_61 Start: 35513, Stop: 34857, Start Num: 23
Candidate Starts for BarnCat_61:
(Start: 23 @35513 has 8 MA's), (40, 35426), (59, 35345), (70, 35288), (79, 35210), (80, 35201), (84, 35165), (95, 35069), (108, 35006), (110, 34991), (113, 34970),

Gene: C3PO_45 Start: 42754, Stop: 42164, Start Num: 21
Candidate Starts for C3PO_45:
(13, 42886), (14, 42883), (Start: 21 @42754 has 3 MA's), (29, 42706), (37, 42667), (41, 42643), (43, 42640), (75, 42496), (81, 42418), (87, 42385), (101, 42277), (120, 42175), (122, 42169),

Gene: Cruella_45 Start: 42754, Stop: 42164, Start Num: 21
Candidate Starts for Cruella_45:

(13, 42886), (14, 42883), (Start: 21 @42754 has 3 MA's), (29, 42706), (37, 42667), (41, 42643), (43, 42640), (75, 42496), (81, 42418), (87, 42385), (101, 42277), (120, 42175), (122, 42169),

Gene: Daredevil_91 Start: 63069, Stop: 63638, Start Num: 23
Candidate Starts for Daredevil_91:
(7, 62760), (10, 62871), (Start: 23 @63069 has 8 MA's), (46, 63186), (59, 63237), (69, 63291), (76, 63336), (90, 63480), (100, 63546),

Gene: Darwin_76 Start: 54919, Stop: 54362, Start Num: 27
Candidate Starts for Darwin_76:
(Start: 27 @54919 has 1 MA's), (47, 54829), (62, 54778), (75, 54700), (115, 54418), (123, 54370),

Gene: Darwin_14 Start: 7286, Stop: 7858, Start Num: 31
Candidate Starts for Darwin_14:
(Start: 31 @7286 has 1 MA's), (66, 7448), (70, 7466), (71, 7469), (103, 7727), (109, 7763), (122, 7832),

Gene: Darwin_11 Start: 6015, Stop: 6593, Start Num: 24
Candidate Starts for Darwin_11:
(Start: 24 @6015 has 1 MA's), (48, 6126), (51, 6132), (77, 6267), (78, 6282), (85, 6351), (87, 6372), (111, 6534), (119, 6579),

Gene: DatBoi_98 Start: 66730, Stop: 67308, Start Num: 23
Candidate Starts for DatBoi_98:
(Start: 23 @66730 has 8 MA's), (34, 66778), (38, 66814), (44, 66838), (46, 66847), (79, 67036), (102, 67228),

Gene: Francesca_39 Start: 21303, Stop: 21839, Start Num: 23
Candidate Starts for Francesca_39:
(Start: 23 @21303 has 8 MA's), (68, 21498), (69, 21501), (81, 21618), (110, 21804), (114, 21822),

Gene: Gizmo_126 Start: 66298, Stop: 65843, Start Num: 30
Candidate Starts for Gizmo_126:
(Start: 30 @66298 has 1 MA's), (49, 66211), (59, 66175), (68, 66139), (75, 66100), (80, 66049),

Gene: Ibantik_17 Start: 6683, Stop: 6195, Start Num: 33
Candidate Starts for Ibantik_17:
(Start: 33 @6683 has 1 MA's), (47, 6599), (57, 6566), (61, 6548), (67, 6521), (91, 6335), (98, 6278),

Gene: Ibantik_66 Start: 28032, Stop: 28526, Start Num: 28
Candidate Starts for Ibantik_66:
(Start: 27 @28029 has 1 MA's), (Start: 28 @28032 has 1 MA's), (Start: 33 @28044 has 1 MA's), (35, 28062), (42, 28104), (76, 28245), (89, 28374), (104, 28464), (112, 28515),

Gene: LittleE_150 Start: 78544, Stop: 79146, Start Num: 20
Candidate Starts for LittleE_150:
(Start: 20 @78544 has 2 MA's), (46, 78682), (50, 78694), (59, 78736), (64, 78769), (72, 78808), (76, 78829), (81, 78904), (86, 78934), (117, 79132),

Gene: Mollymur_102 Start: 68397, Stop: 68978, Start Num: 23
Candidate Starts for Mollymur_102:
(7, 68076), (12, 68211), (Start: 23 @68397 has 8 MA's), (46, 68514), (55, 68541), (59, 68565), (73, 68646), (85, 68757), (100, 68886), (106, 68916), (107, 68922),

Gene: Nova53_37 Start: 21310, Stop: 21888, Start Num: 22
Candidate Starts for Nova53_37:
(Start: 22 @21310 has 2 MA's), (52, 21442), (70, 21532), (75, 21565), (82, 21646), (88, 21679), (92, 21712), (93, 21730), (113, 21844), (118, 21859), (119, 21871),

Gene: Omega_154 Start: 79628, Stop: 80230, Start Num: 20
Candidate Starts for Omega_154:
(Start: 20 @79628 has 2 MA's), (46, 79766), (50, 79778), (59, 79820), (64, 79853), (72, 79892), (76, 79913), (81, 79988), (86, 80018), (117, 80216),

Gene: Peregrin_232 Start: 114891, Stop: 115472, Start Num: 22
Candidate Starts for Peregrin_232:
(Start: 22 @114891 has 2 MA's), (34, 114942), (38, 114978), (45, 115002), (53, 115023), (60, 115062), (80, 115197), (94, 115323), (96, 115329),

Gene: Samy_64 Start: 40970, Stop: 41473, Start Num: 32
Candidate Starts for Samy_64:
(3, 40451), (5, 40556), (6, 40580), (8, 40679), (11, 40739), (Start: 32 @40970 has 1 MA's), (47, 41057), (58, 41093), (65, 41126), (69, 41144), (87, 41297), (91, 41327), (99, 41390),

Gene: Samy_62 Start: 37969, Stop: 38490, Start Num: 26
Candidate Starts for Samy_62:
(Start: 26 @37969 has 1 MA's), (44, 38059), (74, 38200),

Gene: SpeedDemon_1040 Start: 70108, Stop: 70686, Start Num: 23
Candidate Starts for SpeedDemon_1040:
(7, 69790), (16, 69976), (Start: 23 @70108 has 8 MA's), (34, 70156), (36, 70174), (38, 70192), (46, 70225), (69, 70327), (77, 70378), (86, 70480), (102, 70606),

Gene: Stickynote_47 Start: 43021, Stop: 42431, Start Num: 21
Candidate Starts for Stickynote_47:
(13, 43153), (14, 43150), (Start: 21 @43021 has 3 MA's), (29, 42973), (37, 42934), (41, 42910), (43, 42907), (75, 42763), (81, 42685), (87, 42652), (101, 42544), (121, 42439),

Gene: Towmatter_90 Start: 63151, Stop: 63720, Start Num: 23
Candidate Starts for Towmatter_90:
(7, 62842), (10, 62953), (Start: 23 @63151 has 8 MA's), (46, 63268), (59, 63319), (69, 63373), (76, 63418), (90, 63562), (100, 63628),

Gene: WilliamBoone_144 Start: 75606, Stop: 76268, Start Num: 18
Candidate Starts for WilliamBoone_144:
(Start: 17 @75582 has 1 MA's), (Start: 18 @75606 has 1 MA's), (39, 75792), (56, 75861), (59, 75876), (67, 75918), (105, 76194), (116, 76260),

Gene: Wollypog_58 Start: 43704, Stop: 44234, Start Num: 25
Candidate Starts for Wollypog_58:
(Start: 25 @43704 has 1 MA's), (54, 43818), (63, 43863), (83, 44016), (97, 44124),

Gene: Zucker_50 Start: 32261, Stop: 32884, Start Num: 17
Candidate Starts for Zucker_50:
(1, 31859), (2, 31883), (4, 31901), (9, 32147), (15, 32249), (Start: 17 @32261 has 1 MA's), (19, 32354), (34, 32432), (46, 32501), (67, 32579), (68, 32588), (70, 32594), (71, 32597), (77, 32633), (82, 32708),