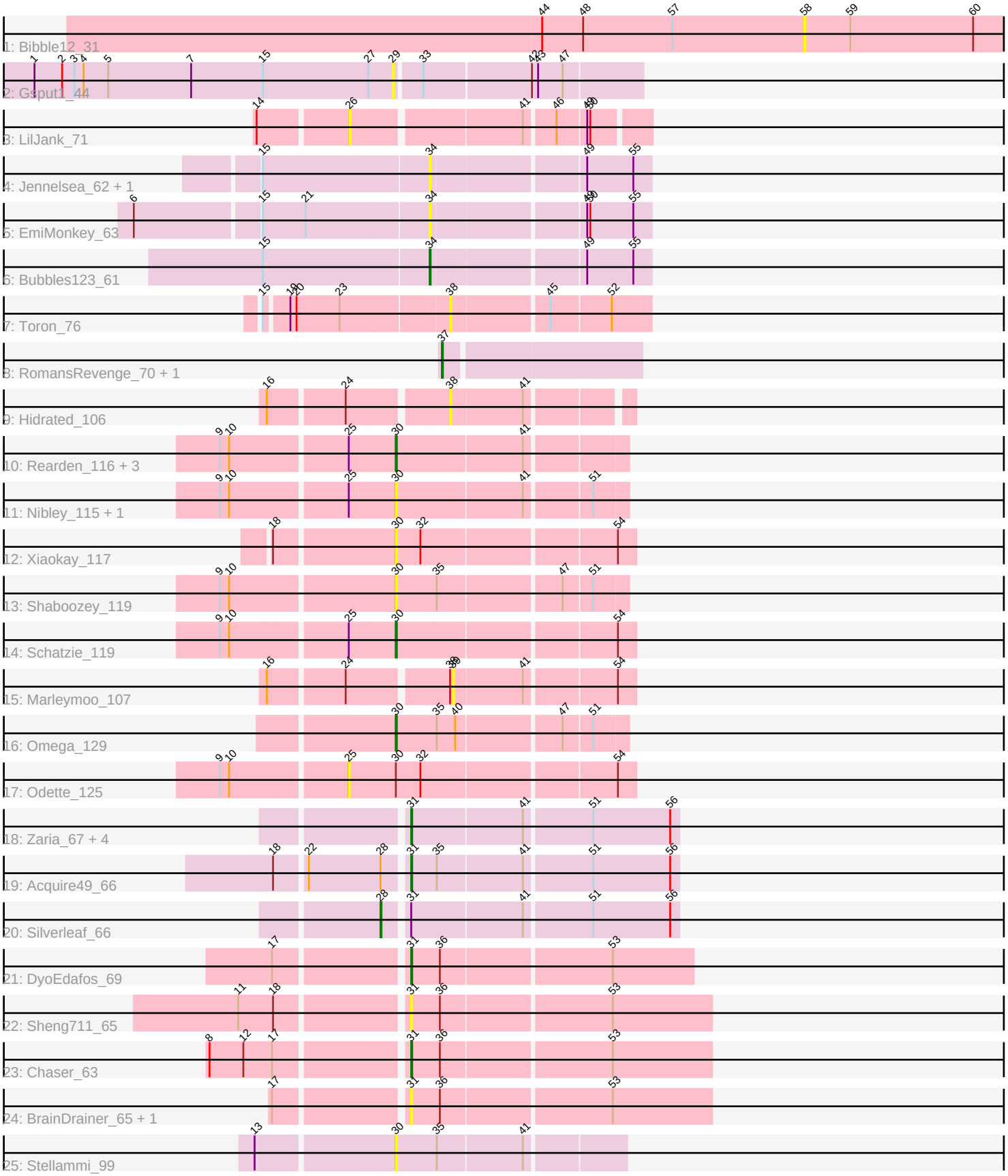
Pham 284002


1: Bibble12_31
2: Gsput1_44
3: LilJank_71
4: Jennelsea_62 + 1
5: EmiMonkey_63
6: Bubbles123_61
7: Toron_76
8: RomansRevenge_70 + 1
9: Hidrated_106
10: Rearden_116 + 3
11: Nibley_115 + 1
12: Xiaokay_117
13: Shaboozey_119
14: Schatzie_119
15: Marleymoo_107
16: Omega_129
17: Odette_125
18: Zaria_67 + 4
19: Acquire49_66
20: Silverleaf_66
21: DyoEdafos_69
22: Sheng711_65
23: Chaser_63
24: BrainDrainer_65 + 1
25: Stellammi_99

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 284002 Report

This analysis was run 02/23/26 on database version 636.

Pham number 284002 has 36 members, 20 are drafts.

Phages represented in each track:
- Track 1 : Bibble12_31
- Track 2 : Gsput1_44
- Track 3 : LilJank_71
- Track 4 : Jennelsea_62, Mwanjiwa_71
- Track 5 : EmiMonkey_63
- Track 6 : Bubbles123_61
- Track 7 : Toron_76
- Track 8 : RomansRevenge_70, Boise_68
- Track 9 : Hidrated_106
- Track 10 : Rearden_116, Hannaconda_109, Porcelain_118, KashFlow_115
- Track 11 : Nibley_115, BronnyJames_115
- Track 12 : Xiaokay_117
- Track 13 : Shaboozey_119
- Track 14 : Schatzie_119
- Track 15 : Marleymoo_107
- Track 16 : Omega_129
- Track 17 : Odette_125
- Track 18 : Zaria_67, Halena_64, DirkDirk_63, Calm_67, LeBron_65
- Track 19 : Acquire49_66
- Track 20 : Silverleaf_66
- Track 21 : DyoEdafos_69
- Track 22 : Sheng711_65
- Track 23 : Chaser_63
- Track 24 : BrainDrainer_65, Kropertea_63
- Track 25 : Stellammi_99

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

The start number called the most often in the published annotations is 31, it was called in 8 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
- Acquire49_66, BrainDrainer_65, Calm_67, Chaser_63, DirkDirk_63, DyoEdafos_69, Halena_64, Kropertea_63, LeBron_65, Sheng711_65, Zaria_67,

Genes that have the "Most Annotated" start but do not call it:
• Silverleaf_66,

Genes that do not have the "Most Annotated" start:
• Bibble12_31, Boise_68, BronnyJames_115, Bubbles123_61, EmiMonkey_63, Gsput1_44, Hannaconda_109, Hidrated_106, Jennelsea_62, KashFlow_115, LilJank_71, Marleymoo_107, Mwanjiwa_71, Nibley_115, Odette_125, Omega_129, Porcelain_118, Rearden_116, RomansRevenge_70, Schatzie_119, Shaboozey_119, Stellammi_99, Toron_76, Xiaokay_117,

Summary by start number:

Start 25:
• Found in 8 of 36 (22.2%) of genes in pham
• No Manual Annotations of this start.
• Called 12.5% of time when present
• Phage (with cluster) where this start called: Odette_125 (J),

Start 26:
• Found in 1 of 36 (2.8%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: LilJank_71 (DU2),

Start 28:
• Found in 2 of 36 (5.6%) of genes in pham
• Manual Annotations of this start: 1 of 16
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Silverleaf_66 (L1),

Start 29:
• Found in 1 of 36 (2.8%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Gsput1_44 (CU2),

Start 30:
• Found in 12 of 36 (33.3%) of genes in pham
• Manual Annotations of this start: 5 of 16
• Called 91.7% of time when present
• Phage (with cluster) where this start called: BronnyJames_115 (J), Hannaconda_109 (J), KashFlow_115 (J), Nibley_115 (J), Omega_129 (J), Porcelain_118 (J), Rearden_116 (J), Schatzie_119 (J), Shaboozey_119 (J), Stellammi_99 (UNK), Xiaokay_117 (J),

Start 31:
• Found in 12 of 36 (33.3%) of genes in pham
• Manual Annotations of this start: 8 of 16
• Called 91.7% of time when present
• Phage (with cluster) where this start called: Acquire49_66 (L1), BrainDrainer_65 (L4), Calm_67 (L1), Chaser_63 (L4), DirkDirk_63 (L1), DyoEdafos_69 (L4), Halena_64 (L1), Kropertea_63 (L4), LeBron_65 (L1), Sheng711_65 (L4), Zaria_67

(L1),

Start 34:
• Found in 4 of 36 (11.1%) of genes in pham
• Manual Annotations of this start: 1 of 16
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bubbles123_61 (F1), EmiMonkey_63 (F1), Jennelsea_62 (F1), Mwanjiwa_71 (F1),

Start 37:
• Found in 2 of 36 (5.6%) of genes in pham
• Manual Annotations of this start: 1 of 16
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Boise_68 (FT), RomansRevenge_70 (FT),

Start 38:
• Found in 3 of 36 (8.3%) of genes in pham
• No Manual Annotations of this start.
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Hidrated_106 (J), Toron_76 (F6),

Start 39:
• Found in 1 of 36 (2.8%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Marleymoo_107 (J),

Start 58:
• Found in 1 of 36 (2.8%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bibble12_31 (AS2),

Summary by clusters:

There are 10 clusters represented in this pham: F1, FT, CU2, F6, AS2, J, L4, L1, DU2, UNK,

Info for manual annotations of cluster F1:
•Start number 34 was manually annotated 1 time for cluster F1.

Info for manual annotations of cluster FT:
•Start number 37 was manually annotated 1 time for cluster FT.

Info for manual annotations of cluster J:
•Start number 30 was manually annotated 5 times for cluster J.

Info for manual annotations of cluster L1:

•Start number 28 was manually annotated 1 time for cluster L1.
•Start number 31 was manually annotated 6 times for cluster L1.

Info for manual annotations of cluster L4:
•Start number 31 was manually annotated 2 times for cluster L4.

Gene Information:

Gene: Acquire49_66 Start: 45197, Stop: 45448, Start Num: 31
Candidate Starts for Acquire49_66:
(18, 45080), (22, 45107), (Start: 28 @45176 has 1 MA's), (Start: 31 @45197 has 8 MA's), (35, 45221), (41, 45302), (51, 45365), (56, 45440),

Gene: Bibble12_31 Start: 21385, Stop: 21161, Start Num: 58
Candidate Starts for Bibble12_31:
(44, 21640), (48, 21601), (57, 21514), (58, 21385), (59, 21340), (60, 21220),

Gene: Boise_68 Start: 47176, Stop: 46991, Start Num: 37
Candidate Starts for Boise_68:
(Start: 37 @47176 has 1 MA's),

Gene: BrainDrainer_65 Start: 45385, Stop: 45666, Start Num: 31
Candidate Starts for BrainDrainer_65:
(17, 45268), (Start: 31 @45385 has 8 MA's), (36, 45412), (53, 45571),

Gene: BronnyJames_115 Start: 65267, Stop: 65479, Start Num: 30
Candidate Starts for BronnyJames_115:
(9, 65105), (10, 65114), (25, 65222), (Start: 30 @65267 has 5 MA's), (41, 65387), (51, 65447),

Gene: Bubbles123_61 Start: 41991, Stop: 42194, Start Num: 34
Candidate Starts for Bubbles123_61:
(15, 41832), (Start: 34 @41991 has 1 MA's), (49, 42132), (55, 42177),

Gene: Calm_67 Start: 44988, Stop: 45239, Start Num: 31
Candidate Starts for Calm_67:
(Start: 31 @44988 has 8 MA's), (41, 45093), (51, 45156), (56, 45231),

Gene: Chaser_63 Start: 45157, Stop: 45438, Start Num: 31
Candidate Starts for Chaser_63:
(8, 44980), (12, 45013), (17, 45040), (Start: 31 @45157 has 8 MA's), (36, 45184), (53, 45343),

Gene: DirkDirk_63 Start: 44398, Stop: 44649, Start Num: 31
Candidate Starts for DirkDirk_63:
(Start: 31 @44398 has 8 MA's), (41, 44503), (51, 44566), (56, 44641),

Gene: DyoEdafos_69 Start: 45646, Stop: 45909, Start Num: 31
Candidate Starts for DyoEdafos_69:
(17, 45529), (Start: 31 @45646 has 8 MA's), (36, 45673), (53, 45832),

Gene: EmiMonkey_63 Start: 44267, Stop: 44470, Start Num: 34

Candidate Starts for EmiMonkey_63:
(6, 43991), (15, 44108), (21, 44150), (Start: 34 @44267 has 1 MA's), (49, 44408), (50, 44411), (55, 44453),

Gene: Gsput1_44 Start: 32260, Stop: 32490, Start Num: 29
Candidate Starts for Gsput1_44:
(1, 31912), (2, 31939), (3, 31951), (4, 31960), (5, 31984), (7, 32065), (15, 32134), (27, 32236), (29, 32260), (33, 32284), (42, 32386), (43, 32392), (47, 32416),

Gene: Halena_64 Start: 44435, Stop: 44686, Start Num: 31
Candidate Starts for Halena_64:
(Start: 31 @44435 has 8 MA's), (41, 44540), (51, 44603), (56, 44678),

Gene: Hannaconda_109 Start: 62823, Stop: 63035, Start Num: 30
Candidate Starts for Hannaconda_109:
(9, 62661), (10, 62670), (25, 62778), (Start: 30 @62823 has 5 MA's), (41, 62943),

Gene: Hidrated_106 Start: 65428, Stop: 65589, Start Num: 38
Candidate Starts for Hidrated_106:
(16, 65269), (24, 65338), (38, 65428), (41, 65497),

Gene: Jennelsea_62 Start: 41284, Stop: 41487, Start Num: 34
Candidate Starts for Jennelsea_62:
(15, 41125), (Start: 34 @41284 has 1 MA's), (49, 41425), (55, 41470),

Gene: KashFlow_115 Start: 65328, Stop: 65540, Start Num: 30
Candidate Starts for KashFlow_115:
(9, 65166), (10, 65175), (25, 65283), (Start: 30 @65328 has 5 MA's), (41, 65448),

Gene: Kropertea_63 Start: 45311, Stop: 45574, Start Num: 31
Candidate Starts for Kropertea_63:
(17, 45194), (Start: 31 @45311 has 8 MA's), (36, 45338), (53, 45497),

Gene: LeBron_65 Start: 44439, Stop: 44690, Start Num: 31
Candidate Starts for LeBron_65:
(Start: 31 @44439 has 8 MA's), (41, 44544), (51, 44607), (56, 44682),

Gene: LilJank_71 Start: 45400, Stop: 45666, Start Num: 26
Candidate Starts for LilJank_71:
(14, 45319), (26, 45400), (41, 45556), (46, 45583), (49, 45610), (50, 45613),

Gene: Marleymoo_107 Start: 65101, Stop: 65268, Start Num: 39
Candidate Starts for Marleymoo_107:
(16, 64939), (24, 65008), (38, 65098), (39, 65101), (41, 65167), (54, 65251),

Gene: Mwanjiwa_71 Start: 43700, Stop: 43903, Start Num: 34
Candidate Starts for Mwanjiwa_71:
(15, 43541), (Start: 34 @43700 has 1 MA's), (49, 43841), (55, 43886),

Gene: Nibley_115 Start: 64844, Stop: 65056, Start Num: 30
Candidate Starts for Nibley_115:
(9, 64682), (10, 64691), (25, 64799), (Start: 30 @64844 has 5 MA's), (41, 64964), (51, 65024),

Gene: Odette_125 Start: 69428, Stop: 69694, Start Num: 25
Candidate Starts for Odette_125:
(9, 69311), (10, 69320), (25, 69428), (Start: 30 @69473 has 5 MA's), (32, 69497), (54, 69677),

Gene: Omega_129 Start: 69312, Stop: 69524, Start Num: 30
Candidate Starts for Omega_129:
(Start: 30 @69312 has 5 MA's), (35, 69351), (40, 69369), (47, 69465), (51, 69492),

Gene: Porcelain_118 Start: 65153, Stop: 65365, Start Num: 30
Candidate Starts for Porcelain_118:
(9, 64991), (10, 65000), (25, 65108), (Start: 30 @65153 has 5 MA's), (41, 65273),

Gene: Rearden_116 Start: 64864, Stop: 65076, Start Num: 30
Candidate Starts for Rearden_116:
(9, 64702), (10, 64711), (25, 64819), (Start: 30 @64864 has 5 MA's), (41, 64984),

Gene: RomansRevenge_70 Start: 47385, Stop: 47200, Start Num: 37
Candidate Starts for RomansRevenge_70:
(Start: 37 @47385 has 1 MA's),

Gene: Schatzie_119 Start: 68356, Stop: 68577, Start Num: 30
Candidate Starts for Schatzie_119:
(9, 68194), (10, 68203), (25, 68311), (Start: 30 @68356 has 5 MA's), (54, 68560),

Gene: Shaboozey_119 Start: 65288, Stop: 65500, Start Num: 30
Candidate Starts for Shaboozey_119:
(9, 65126), (10, 65135), (Start: 30 @65288 has 5 MA's), (35, 65327), (47, 65441), (51, 65468),

Gene: Sheng711_65 Start: 45215, Stop: 45496, Start Num: 31
Candidate Starts for Sheng711_65:
(11, 45065), (18, 45098), (Start: 31 @45215 has 8 MA's), (36, 45242), (53, 45401),

Gene: Silverleaf_66 Start: 45037, Stop: 45309, Start Num: 28
Candidate Starts for Silverleaf_66:
(Start: 28 @45037 has 1 MA's), (Start: 31 @45058 has 8 MA's), (41, 45163), (51, 45226), (56, 45301),

Gene: Stellammi_99 Start: 47175, Stop: 47387, Start Num: 30
Candidate Starts for Stellammi_99:
(13, 47049), (Start: 30 @47175 has 5 MA's), (35, 47214), (41, 47295),

Gene: Toron_76 Start: 46968, Stop: 47153, Start Num: 38
Candidate Starts for Toron_76:
(15, 46797), (19, 46818), (20, 46824), (23, 46866), (38, 46968), (45, 47058), (52, 47115),

Gene: Xiaokay_117 Start: 66343, Stop: 66564, Start Num: 30
Candidate Starts for Xiaokay_117:
(18, 66232), (Start: 30 @66343 has 5 MA's), (32, 66367), (54, 66547),

Gene: Zaria_67 Start: 44988, Stop: 45239, Start Num: 31
Candidate Starts for Zaria_67:
(Start: 31 @44988 has 8 MA's), (41, 45093), (51, 45156), (56, 45231),