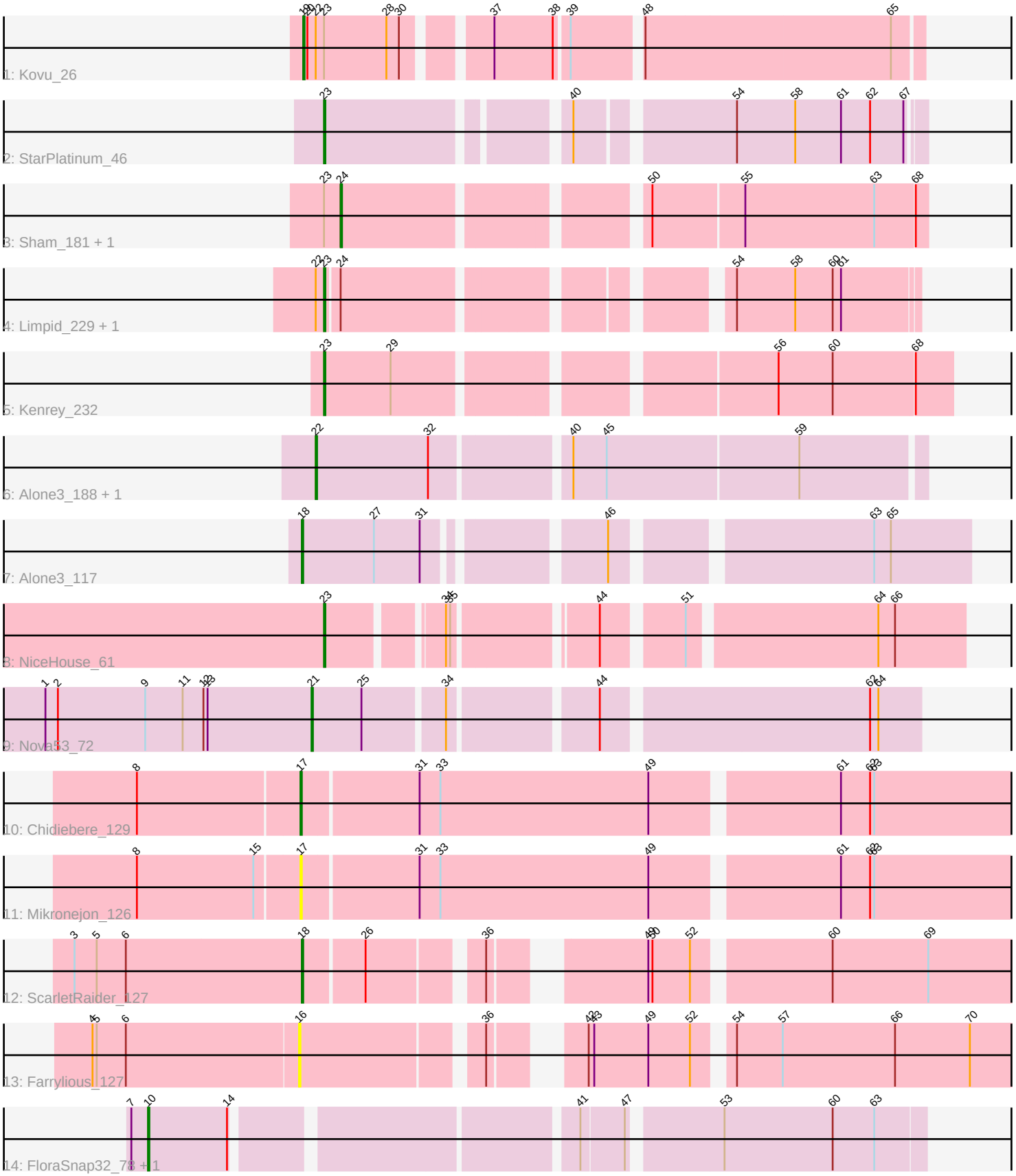
Pham 297006


1: Kovu_26
2: StarPlatinum_46
3: Sham_181 + 1
4: Limpid_229 + 1
5: Kenrey_232
6: Alone3_188 + 1
7: Alone3_117
8: NiceHouse_61
9: Nova53_72
10: Chidiebere_129
11: Mikronejon_126
12: ScarletRaider_127
13: Farrylious_127
14: FloraSnap32_78 + 1

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 297006 Report

This analysis was run 04/25/26 on database version 644.

Pham number 297006 has 18 members, 3 are drafts.

Phages represented in each track:
• Track 1 : Kovu_26
• Track 2 : StarPlatinum_46
• Track 3 : Sham_181, TunaTartare_189
• Track 4 : Limpid_229, Annadreamy_222
• Track 5 : Kenrey_232
• Track 6 : Alone3_188, Talos_188
• Track 7 : Alone3_117
• Track 8 : NiceHouse_61
• Track 9 : Nova53_72
• Track 10 : Chidiebere_129
• Track 11 : Mikronejon_126
• Track 12 : ScarletRaider_127
• Track 13 : Farrylious_127
• Track 14 : FloraSnap32_78, Patbob_77

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 5 of the 15 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Annadreamy_222, Kenrey_232, Limpid_229, NiceHouse_61, StarPlatinum_46,

Genes that have the "Most Annotated" start but do not call it:
• Kovu_26, Sham_181, TunaTartare_189,

Genes that do not have the "Most Annotated" start:
• Alone3_117, Alone3_188, Chidiebere_129, Farrylious_127, FloraSnap32_78, Mikronejon_126, Nova53_72, Patbob_77, ScarletRaider_127, Talos_188,

Summary by start number:

Start 10:
• Found in 2 of 18 (11.1%) of genes in pham

• Manual Annotations of this start: 1 of 15
• Called 100.0% of time when present
• Phage (with cluster) where this start called: FloraSnap32_78 (FC), Patbob_77 (FC),

Start 16:
• Found in 1 of 18 (5.6%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Farrylious_127 (DQ),

Start 17:
• Found in 2 of 18 (11.1%) of genes in pham
• Manual Annotations of this start: 1 of 15
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Chidiebere_129 (DQ), Mikronejon_126 (DQ),

Start 18:
• Found in 2 of 18 (11.1%) of genes in pham
• Manual Annotations of this start: 2 of 15
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Alone3_117 (BS), ScarletRaider_127 (DQ),

Start 19:
• Found in 1 of 18 (5.6%) of genes in pham
• Manual Annotations of this start: 1 of 15
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Kovu_26 (AL),

Start 21:
• Found in 1 of 18 (5.6%) of genes in pham
• Manual Annotations of this start: 1 of 15
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Nova53_72 (CG),

Start 22:
• Found in 5 of 18 (27.8%) of genes in pham
• Manual Annotations of this start: 2 of 15
• Called 40.0% of time when present
• Phage (with cluster) where this start called: Alone3_188 (BS), Talos_188 (BS),

Start 23:
• Found in 8 of 18 (44.4%) of genes in pham
• Manual Annotations of this start: 5 of 15
• Called 62.5% of time when present
• Phage (with cluster) where this start called: Annadreamy_222 (BK1), Kenrey_232 (BK1), Limpid_229 (BK1), NiceHouse_61 (CE), StarPlatinum_46 (BE2),

Start 24:
• Found in 4 of 18 (22.2%) of genes in pham
• Manual Annotations of this start: 2 of 15
• Called 50.0% of time when present

• Phage (with cluster) where this start called: Sham_181 (BK1), TunaTartare_189 (BK1),

Summary by clusters:

There are 8 clusters represented in this pham: CG, AL, CE, FC, BK1, BS, BE2, DQ,

Info for manual annotations of cluster AL:
•Start number 19 was manually annotated 1 time for cluster AL.

Info for manual annotations of cluster BE2:
•Start number 23 was manually annotated 1 time for cluster BE2.

Info for manual annotations of cluster BK1:
•Start number 23 was manually annotated 3 times for cluster BK1.
•Start number 24 was manually annotated 2 times for cluster BK1.

Info for manual annotations of cluster BS:
•Start number 18 was manually annotated 1 time for cluster BS.
•Start number 22 was manually annotated 2 times for cluster BS.

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

Info for manual annotations of cluster CG:
•Start number 21 was manually annotated 1 time for cluster CG.

Info for manual annotations of cluster DQ:
•Start number 17 was manually annotated 1 time for cluster DQ.
•Start number 18 was manually annotated 1 time for cluster DQ.

Info for manual annotations of cluster FC:
•Start number 10 was manually annotated 1 time for cluster FC.

Gene Information:

Gene: Alone3_188 Start: 97401, Stop: 96985, Start Num: 22
Candidate Starts for Alone3_188:
(Start: 22 @97401 has 2 MA's), (32, 97320), (40, 97230), (45, 97206), (59, 97071),

Gene: Alone3_117 Start: 62982, Stop: 63413, Start Num: 18
Candidate Starts for Alone3_117:
(Start: 18 @62982 has 2 MA's), (27, 63033), (31, 63066), (46, 63177), (63, 63345), (65, 63357),

Gene: Annadreamy_222 Start: 109759, Stop: 110133, Start Num: 23
Candidate Starts for Annadreamy_222:
(Start: 22 @109753 has 2 MA's), (Start: 23 @109759 has 5 MA's), (Start: 24 @109768 has 2 MA's), (54, 110005), (58, 110047), (60, 110074), (61, 110080),

Gene: Chidiebere_129 Start: 90897, Stop: 90346, Start Num: 17
Candidate Starts for Chidiebere_129:

(8, 91011), (Start: 17 @90897 has 1 MA's), (31, 90816), (33, 90801), (49, 90651), (61, 90525), (62, 90504), (63, 90501),

Gene: Farrylious_127 Start: 89655, Stop: 89143, Start Num: 16
Candidate Starts for Farrylious_127:
(4, 89802), (5, 89799), (6, 89778), (16, 89655), (36, 89535), (42, 89490), (43, 89487), (49, 89448), (52, 89418), (54, 89397), (57, 89364), (66, 89283), (70, 89229),

Gene: FloraSnap32_78 Start: 42949, Stop: 42437, Start Num: 10
Candidate Starts for FloraSnap32_78:
(7, 42961), (Start: 10 @42949 has 1 MA's), (14, 42892), (41, 42670), (47, 42640), (53, 42580), (60, 42502), (63, 42472),

Gene: Kenrey_232 Start: 111193, Stop: 111606, Start Num: 23
Candidate Starts for Kenrey_232:
(Start: 23 @111193 has 5 MA's), (29, 111241), (56, 111484), (60, 111523), (68, 111580),

Gene: Kovu_26 Start: 17736, Stop: 17326, Start Num: 19
Candidate Starts for Kovu_26:
(Start: 19 @17736 has 1 MA's), (20, 17733), (Start: 22 @17727 has 2 MA's), (Start: 23 @17721 has 5 MA's), (28, 17676), (30, 17667), (37, 17616), (38, 17574), (39, 17565), (48, 17520), (65, 17346),

Gene: Limpid_229 Start: 115072, Stop: 115446, Start Num: 23
Candidate Starts for Limpid_229:
(Start: 22 @115066 has 2 MA's), (Start: 23 @115072 has 5 MA's), (Start: 24 @115081 has 2 MA's), (54, 115318), (58, 115360), (60, 115387), (61, 115393),

Gene: Mikronejon_126 Start: 90250, Stop: 89696, Start Num: 17
Candidate Starts for Mikronejon_126:
(8, 90364), (15, 90280), (Start: 17 @90250 has 1 MA's), (31, 90169), (33, 90154), (49, 90004), (61, 89878), (62, 89857), (63, 89854),

Gene: NiceHouse_61 Start: 34862, Stop: 35269, Start Num: 23
Candidate Starts for NiceHouse_61:
(Start: 23 @34862 has 5 MA's), (34, 34934), (35, 34937), (44, 35027), (51, 35078), (64, 35207), (66, 35219),

Gene: Nova53_72 Start: 59567, Stop: 59971, Start Num: 21
Candidate Starts for Nova53_72:
(1, 59375), (2, 59384), (9, 59447), (11, 59474), (12, 59489), (13, 59492), (Start: 21 @59567 has 1 MA's), (25, 59603), (34, 59657), (44, 59753), (62, 59936), (64, 59942),

Gene: Patbob_77 Start: 44134, Stop: 43622, Start Num: 10
Candidate Starts for Patbob_77:
(7, 44146), (Start: 10 @44134 has 1 MA's), (14, 44077), (41, 43855), (47, 43825), (53, 43765), (60, 43687), (63, 43657),

Gene: ScarletRaider_127 Start: 92635, Stop: 92135, Start Num: 18
Candidate Starts for ScarletRaider_127:
(3, 92797), (5, 92782), (6, 92761), (Start: 18 @92635 has 2 MA's), (26, 92593), (36, 92521), (49, 92434), (50, 92431), (52, 92404), (60, 92314), (69, 92245),

Gene: Sham_181 Start: 98652, Stop: 99035, Start Num: 24

Candidate Starts for Sham_181:
(Start: 23 @98640 has 5 MA's), (Start: 24 @98652 has 2 MA's), (50, 98844), (55, 98907), (63, 99000), (68, 99027),

Gene: StarPlatinum_46 Start: 22656, Stop: 23042, Start Num: 23
Candidate Starts for StarPlatinum_46:
(Start: 23 @22656 has 5 MA's), (40, 22809), (54, 22911), (58, 22953), (61, 22986), (62, 23007), (67, 23031),

Gene: Talos_188 Start: 95931, Stop: 95515, Start Num: 22
Candidate Starts for Talos_188:
(Start: 22 @95931 has 2 MA's), (32, 95850), (40, 95760), (45, 95736), (59, 95601),

Gene: TunaTartare_189 Start: 100701, Stop: 101084, Start Num: 24
Candidate Starts for TunaTartare_189:
(Start: 23 @100689 has 5 MA's), (Start: 24 @100701 has 2 MA's), (50, 100893), (55, 100956), (63, 101049), (68, 101076),