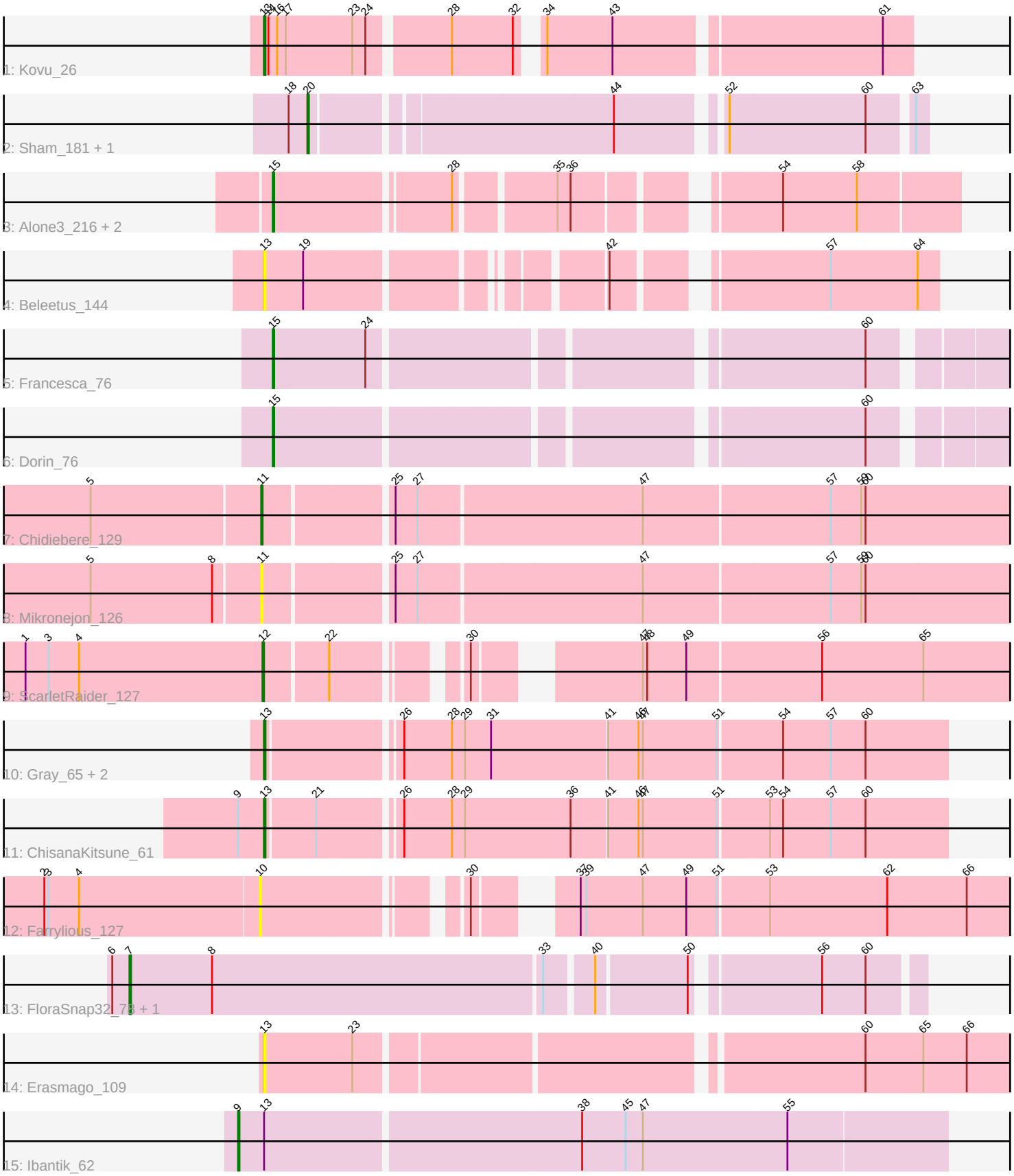
Pham 291547


1: Kovu_26
2: Sham_181 + 1
3: Alone3_216 + 2
4: Beleetus_144
5: Francesca_76
6: Dorin_76
7: Chidiebere_129
8: Mikronejon_126
9: ScarletRaider_127
10: Gray_65 + 2
11: ChisanaKitsune_61
12: Farrylious_127
13: FloraSnap32_73 + 1
14: Erasmago_109
15: Ibantik_62

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 291547 Report

This analysis was run 03/28/26 on database version 641.

Pham number 291547 has 21 members, 6 are drafts.

Phages represented in each track:
• Track 1 : Kovu_26
• Track 2 : Sham_181, TunaTartare_189
• Track 3 : Alone3_216, Talos_215, Park1214_226
• Track 4 : Beleetus_144
• Track 5 : Francesca_76
• Track 6 : Dorin_76
• Track 7 : Chidiebere_129
• Track 8 : Mikronejon_126
• Track 9 : ScarletRaider_127
• Track 10 : Gray_65, Kabocha_66, Chidiebere_65
• Track 11 : ChisanaKitsune_61
• Track 12 : Farrylious_127
• Track 13 : FloraSnap32_78, Patbob_77
• Track 14 : Erasmago_109
• Track 15 : Ibantik_62

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

The start number called the most often in the published annotations is 13, it was called in 5 of the 15 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Beleetus_144, Chidiebere_65, ChisanaKitsune_61, Erasmago_109, Gray_65, Kabocha_66, Kovu_26,

Genes that have the "Most Annotated" start but do not call it:
• Ibantik_62,

Genes that do not have the "Most Annotated" start:
• Alone3_216, Chidiebere_129, Dorin_76, Farrylious_127, FloraSnap32_78, Francesca_76, Mikronejon_126, Park1214_226, Patbob_77, ScarletRaider_127, Sham_181, Talos_215, TunaTartare_189,

Summary by start number:

Start 7:
• Found in 2 of 21 (9.5%) 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 9:
• Found in 2 of 21 (9.5%) of genes in pham
• Manual Annotations of this start: 1 of 15
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Ibantik_62 (singleton),

Start 10:
• Found in 1 of 21 (4.8%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Farrylious_127 (DQ),

Start 11:
• Found in 2 of 21 (9.5%) 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 12:
• Found in 1 of 21 (4.8%) 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: ScarletRaider_127 (DQ),

Start 13:
• Found in 8 of 21 (38.1%) of genes in pham
• Manual Annotations of this start: 5 of 15
• Called 87.5% of time when present
• Phage (with cluster) where this start called: Beleetus_144 (BS), Chidiebere_65 (DQ), ChisanaKitsune_61 (DQ), Erasmago_109 (GD2), Gray_65 (DQ), Kabocha_66 (DQ), Kovu_26 (AL),

Start 15:
• Found in 5 of 21 (23.8%) of genes in pham
• Manual Annotations of this start: 4 of 15
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Alone3_216 (BS), Dorin_76 (CG), Francesca_76 (CG), Park1214_226 (BS), Talos_215 (BS),

Start 20:
• Found in 2 of 21 (9.5%) 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: Sham_181 (BK1), TunaTartare_189 (BK1),

Summary by clusters:

There are 8 clusters represented in this pham: singleton, CG, AL, FC, BK1, BS, GD2, DQ,

Info for manual annotations of cluster AL:
•Start number 13 was manually annotated 1 time for cluster AL.

Info for manual annotations of cluster BK1:
•Start number 20 was manually annotated 2 times for cluster BK1.

Info for manual annotations of cluster BS:
•Start number 15 was manually annotated 2 times for cluster BS.

Info for manual annotations of cluster CG:
•Start number 15 was manually annotated 2 times for cluster CG.

Info for manual annotations of cluster DQ:
•Start number 11 was manually annotated 1 time for cluster DQ.
•Start number 12 was manually annotated 1 time for cluster DQ.
•Start number 13 was manually annotated 4 times for cluster DQ.

Info for manual annotations of cluster FC:
•Start number 7 was manually annotated 1 time for cluster FC.

Gene Information:

Gene: Alone3_216 Start: 111609, Stop: 111190, Start Num: 15
Candidate Starts for Alone3_216:
(Start: 15 @111609 has 4 MA's), (28, 111495), (35, 111435), (36, 111426), (54, 111309), (58, 111258),

Gene: Beleetus_144 Start: 78377, Stop: 78778, Start Num: 13
Candidate Starts for Beleetus_144:
(Start: 13 @78377 has 5 MA's), (19, 78404), (42, 78578), (57, 78704), (64, 78764),

Gene: Chidiebere_129 Start: 90897, Stop: 90346, Start Num: 11
Candidate Starts for Chidiebere_129:
(5, 91011), (Start: 11 @90897 has 1 MA's), (25, 90816), (27, 90801), (47, 90651), (57, 90525), (59, 90504), (60, 90501),

Gene: Chidiebere_65 Start: 51821, Stop: 52273, Start Num: 13
Candidate Starts for Chidiebere_65:
(Start: 13 @51821 has 5 MA's), (26, 51905), (28, 51938), (29, 51947), (31, 51965), (41, 52043), (46, 52064), (47, 52067), (51, 52118), (54, 52160), (57, 52193), (60, 52217),

Gene: ChisanaKitsune_61 Start: 50595, Stop: 51047, Start Num: 13
Candidate Starts for ChisanaKitsune_61:
(Start: 9 @50577 has 1 MA's), (Start: 13 @50595 has 5 MA's), (21, 50628), (26, 50679), (28, 50712), (29, 50721), (36, 50793), (41, 50817), (46, 50838), (47, 50841), (51, 50892), (53, 50925), (54, 50934),

(57, 50967), (60, 50991),

Gene: Dorin_76 Start: 59997, Stop: 60470, Start Num: 15
Candidate Starts for Dorin_76:
(Start: 15 @59997 has 4 MA's), (60, 60369),

Gene: Erasmago_109 Start: 78875, Stop: 79378, Start Num: 13
Candidate Starts for Erasmago_109:
(Start: 13 @78875 has 5 MA's), (23, 78935), (60, 79253), (65, 79292), (66, 79322),

Gene: Farrylious_127 Start: 89655, Stop: 89143, Start Num: 10
Candidate Starts for Farrylious_127:
(2, 89802), (3, 89799), (4, 89778), (10, 89655), (30, 89535), (37, 89490), (39, 89487), (47, 89448), (49, 89418), (51, 89397), (53, 89364), (62, 89283), (66, 89229),

Gene: FloraSnap32_78 Start: 42949, Stop: 42437, Start Num: 7
Candidate Starts for FloraSnap32_78:
(6, 42961), (Start: 7 @42949 has 1 MA's), (8, 42892), (33, 42670), (40, 42640), (50, 42580), (56, 42502), (60, 42472),

Gene: Francesca_76 Start: 60735, Stop: 61208, Start Num: 15
Candidate Starts for Francesca_76:
(Start: 15 @60735 has 4 MA's), (24, 60798), (60, 61107),

Gene: Gray_65 Start: 51821, Stop: 52273, Start Num: 13
Candidate Starts for Gray_65:
(Start: 13 @51821 has 5 MA's), (26, 51905), (28, 51938), (29, 51947), (31, 51965), (41, 52043), (46, 52064), (47, 52067), (51, 52118), (54, 52160), (57, 52193), (60, 52217),

Gene: Ibantik_62 Start: 26677, Stop: 27156, Start Num: 9
Candidate Starts for Ibantik_62:
(Start: 9 @26677 has 1 MA's), (Start: 13 @26695 has 5 MA's), (38, 26908), (45, 26938), (47, 26950), (55, 27049),

Gene: Kabocha_66 Start: 52633, Stop: 53085, Start Num: 13
Candidate Starts for Kabocha_66:
(Start: 13 @52633 has 5 MA's), (26, 52717), (28, 52750), (29, 52759), (31, 52777), (41, 52855), (46, 52876), (47, 52879), (51, 52930), (54, 52972), (57, 53005), (60, 53029),

Gene: Kovu_26 Start: 17736, Stop: 17326, Start Num: 13
Candidate Starts for Kovu_26:
(Start: 13 @17736 has 5 MA's), (14, 17733), (16, 17727), (17, 17721), (23, 17676), (24, 17667), (28, 17616), (32, 17574), (34, 17565), (43, 17520), (61, 17346),

Gene: Mikronejon_126 Start: 90250, Stop: 89696, Start Num: 11
Candidate Starts for Mikronejon_126:
(5, 90364), (8, 90280), (Start: 11 @90250 has 1 MA's), (25, 90169), (27, 90154), (47, 90004), (57, 89878), (59, 89857), (60, 89854),

Gene: Park1214_226 Start: 111129, Stop: 110710, Start Num: 15
Candidate Starts for Park1214_226:
(Start: 15 @111129 has 4 MA's), (28, 111015), (35, 110955), (36, 110946), (54, 110829), (58, 110778),

Gene: Patbob_77 Start: 44134, Stop: 43622, Start Num: 7
Candidate Starts for Patbob_77:
(6, 44146), (Start: 7 @44134 has 1 MA's), (8, 44077), (33, 43855), (40, 43825), (50, 43765), (56, 43687), (60, 43657),

Gene: ScarletRaider_127 Start: 92635, Stop: 92135, Start Num: 12
Candidate Starts for ScarletRaider_127:
(1, 92797), (3, 92782), (4, 92761), (Start: 12 @92635 has 1 MA's), (22, 92593), (30, 92521), (47, 92434), (48, 92431), (49, 92404), (56, 92314), (65, 92245),

Gene: Sham_181 Start: 98652, Stop: 99035, Start Num: 20
Candidate Starts for Sham_181:
(18, 98640), (Start: 20 @98652 has 2 MA's), (44, 98844), (52, 98907), (60, 99000), (63, 99027),

Gene: Talos_215 Start: 109729, Stop: 109310, Start Num: 15
Candidate Starts for Talos_215:
(Start: 15 @109729 has 4 MA's), (28, 109615), (35, 109555), (36, 109546), (54, 109429), (58, 109378),

Gene: TunaTartare_189 Start: 100701, Stop: 101084, Start Num: 20
Candidate Starts for TunaTartare_189:
(18, 100689), (Start: 20 @100701 has 2 MA's), (44, 100893), (52, 100956), (60, 101049), (63, 101076),