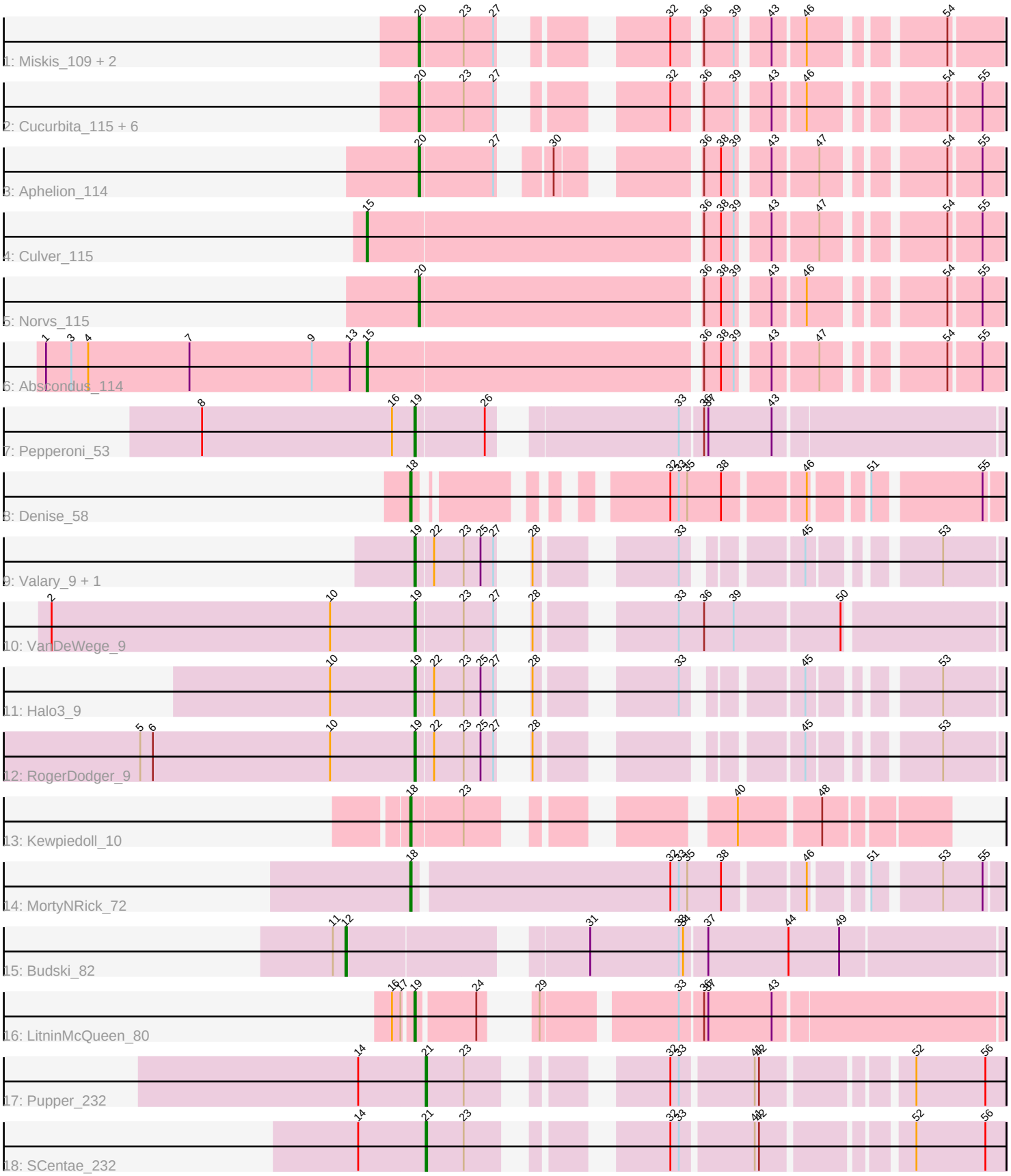
Pham 347942


1: Miskis_109 + 2
2: Cucurbita_115 + 6
3: Aphelion_114
4: Culver_115
5: Norvs_115
6: Abscondus_114
7: Pepperoni_53
8: Denise_58
9: Valary_9 + 1
10: VanDeWege_9
11: Halo3_9
12: RogerDodger_9
13: Kewpiedoll_10
14: MortyNRick_72
15: Budski_82
16: LitninMcQueen_80
17: Pupper_232
18: SCentae_232

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 347942 Report

This analysis was run 11/14/26 on database version 672.

Pham number 347942 has 27 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Miskis_109, Geeche_113, Dusty_112
• Track 2 : Cucurbita_115, Engineer_115, ClubL_115, Smoothie_115, Lozinak_114, PhinkBoden_114, Bachita_116
• Track 3 : Aphelion_114
• Track 4 : Culver_115
• Track 5 : Norvs_115
• Track 6 : Abscondus_114
• Track 7 : Pepperoni_53
• Track 8 : Denise_58
• Track 9 : Valary_9, CherryCola_9
• Track 10 : VanDeWege_9
• Track 11 : Halo3_9
• Track 12 : RogerDodger_9
• Track 13 : Kewpiedoll_10
• Track 14 : MortyNRick_72
• Track 15 : Budski_82
• Track 16 : LitninMcQueen_80
• Track 17 : Pupper_232
• Track 18 : SCentae_232

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

The start number called the most often in the published annotations is 20, it was called in 11 of the 26 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Aphelion_114, Bachita_116, ClubL_115, Cucurbita_115, Dusty_112, Engineer_115, Geeche_113, Lozinak_114, Miskis_109, Norvs_115, PhinkBoden_114, Smoothie_115,

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

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

• Abscondus_114, Budski_82, CherryCola_9, Culver_115, Denise_58, Halo3_9, Kewpiedoll_10, LitninMcQueen_80, MortyNRick_72, Pepperoni_53, Pupper_232, RogerDodger_9, SCentae_232, Valary_9, VanDeWege_9,

Summary by start number:

Start 12:
• Found in 1 of 27 (3.7%) 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: Budski_82 (DN),

Start 15:
• Found in 2 of 27 (7.4%) 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: Abscondus_114 (CQ1), Culver_115 (CQ1),

Start 18:
• Found in 3 of 27 (11.1%) 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: Denise_58 (CZ5), Kewpiedoll_10 (DE1), MortyNRick_72 (DN),

Start 19:
• Found in 7 of 27 (25.9%) of genes in pham
• Manual Annotations of this start: 7 of 26
• Called 100.0% of time when present
• Phage (with cluster) where this start called: CherryCola_9 (DC1), Halo3_9 (DC1), LitninMcQueen_80 (DN1), Pepperoni_53 (CZ), RogerDodger_9 (DC1), Valary_9 (DC1), VanDeWege_9 (DC1),

Start 20:
• Found in 12 of 27 (44.4%) of genes in pham
• Manual Annotations of this start: 11 of 26
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Aphelion_114 (CQ1), Bachita_116 (CQ1), ClubL_115 (CQ1), Cucurbita_115 (CQ1), Dusty_112 (CQ1), Engineer_115 (CQ1), Geeche_113 (CQ1), Lozinak_114 (CQ1), Miskis_109 (CQ1), Norvs_115 (CQ1), PhinkBoden_114 (CQ1), Smoothie_115 (CQ1),

Start 21:
• Found in 2 of 27 (7.4%) 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: Pupper_232 (DO), SCentae_232 (DO),

Summary by clusters:

There are 8 clusters represented in this pham: DN, DO, DE1, CZ5, CZ, DN1, CQ1, DC1,

Info for manual annotations of cluster CQ1:
•Start number 15 was manually annotated 2 times for cluster CQ1.
•Start number 20 was manually annotated 11 times for cluster CQ1.

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

Info for manual annotations of cluster CZ5:
•Start number 18 was manually annotated 1 time for cluster CZ5.

Info for manual annotations of cluster DC1:
•Start number 19 was manually annotated 5 times for cluster DC1.

Info for manual annotations of cluster DE1:
•Start number 18 was manually annotated 1 time for cluster DE1.

Info for manual annotations of cluster DN:
•Start number 12 was manually annotated 1 time for cluster DN.
•Start number 18 was manually annotated 1 time for cluster DN.

Info for manual annotations of cluster DN1:
•Start number 19 was manually annotated 1 time for cluster DN1.

Info for manual annotations of cluster DO:
•Start number 21 was manually annotated 2 times for cluster DO.

Gene Information:

Gene: Abscondus_114 Start: 65979, Stop: 66380, Start Num: 15
Candidate Starts for Abscondus_114:
(1, 65751), (3, 65769), (4, 65781), (7, 65853), (9, 65940), (13, 65967), (Start: 15 @65979 has 2 MA's), (36, 66207), (38, 66219), (39, 66228), (43, 66246), (47, 66276), (54, 66345), (55, 66366),

Gene: Aphelion_114 Start: 66941, Stop: 67261, Start Num: 20
Candidate Starts for Aphelion_114:
(Start: 20 @66941 has 11 MA's), (27, 66992), (30, 67013), (36, 67088), (38, 67100), (39, 67109), (43, 67127), (47, 67157), (54, 67226), (55, 67247),

Gene: Bachita_116 Start: 66804, Stop: 67118, Start Num: 20
Candidate Starts for Bachita_116:
(Start: 20 @66804 has 11 MA's), (23, 66834), (27, 66855), (32, 66930), (36, 66945), (39, 66966), (43, 66984), (46, 67005), (54, 67083), (55, 67104),

Gene: Budski_82 Start: 46032, Stop: 46460, Start Num: 12
Candidate Starts for Budski_82:
(11, 46023), (Start: 12 @46032 has 1 MA's), (31, 46176), (33, 46239), (34, 46242), (37, 46257), (44, 46314), (49, 46350),

Gene: CherryCola_9 Start: 4423, Stop: 4731, Start Num: 19
Candidate Starts for CherryCola_9:

(Start: 19 @4423 has 7 MA's), (22, 4435), (23, 4456), (25, 4468), (27, 4477), (28, 4480), (33, 4558), (45, 4621), (53, 4693),

Gene: ClubL_115 Start: 65734, Stop: 66048, Start Num: 20
Candidate Starts for ClubL_115:
(Start: 20 @65734 has 11 MA's), (23, 65764), (27, 65785), (32, 65860), (36, 65875), (39, 65896), (43, 65914), (46, 65935), (54, 66013), (55, 66034),

Gene: Cucurbita_115 Start: 67299, Stop: 67613, Start Num: 20
Candidate Starts for Cucurbita_115:
(Start: 20 @67299 has 11 MA's), (23, 67329), (27, 67350), (32, 67425), (36, 67440), (39, 67461), (43, 67479), (46, 67500), (54, 67578), (55, 67599),

Gene: Culver_115 Start: 65329, Stop: 65730, Start Num: 15
Candidate Starts for Culver_115:
(Start: 15 @65329 has 2 MA's), (36, 65557), (38, 65569), (39, 65578), (43, 65596), (47, 65626), (54, 65695), (55, 65716),

Gene: Denise_58 Start: 36910, Stop: 37233, Start Num: 18
Candidate Starts for Denise_58:
(Start: 18 @36910 has 3 MA's), (32, 37036), (33, 37042), (35, 37048), (38, 37072), (46, 37123), (51, 37153), (55, 37222),

Gene: Dusty_112 Start: 65640, Stop: 65954, Start Num: 20
Candidate Starts for Dusty_112:
(Start: 20 @65640 has 11 MA's), (23, 65670), (27, 65691), (32, 65766), (36, 65781), (39, 65802), (43, 65820), (46, 65841), (54, 65919),

Gene: Engineer_115 Start: 66777, Stop: 67091, Start Num: 20
Candidate Starts for Engineer_115:
(Start: 20 @66777 has 11 MA's), (23, 66807), (27, 66828), (32, 66903), (36, 66918), (39, 66939), (43, 66957), (46, 66978), (54, 67056), (55, 67077),

Gene: Geeche_113 Start: 65863, Stop: 66177, Start Num: 20
Candidate Starts for Geeche_113:
(Start: 20 @65863 has 11 MA's), (23, 65893), (27, 65914), (32, 65989), (36, 66004), (39, 66025), (43, 66043), (46, 66064), (54, 66142),

Gene: Halo3_9 Start: 4498, Stop: 4806, Start Num: 19
Candidate Starts for Halo3_9:
(10, 4438), (Start: 19 @4498 has 7 MA's), (22, 4510), (23, 4531), (25, 4543), (27, 4552), (28, 4555), (33, 4633), (45, 4696), (53, 4768),

Gene: Kewpiedoll_10 Start: 5162, Stop: 5464, Start Num: 18
Candidate Starts for Kewpiedoll_10:
(Start: 18 @5162 has 3 MA's), (23, 5198), (40, 5330), (48, 5384),

Gene: LitninMcQueen_80 Start: 45316, Stop: 45669, Start Num: 19
Candidate Starts for LitninMcQueen_80:
(16, 45304), (17, 45310), (Start: 19 @45316 has 7 MA's), (24, 45355), (29, 45367), (33, 45451), (36, 45466), (37, 45469), (43, 45514),

Gene: Lozinak_114 Start: 66615, Stop: 66929, Start Num: 20

Candidate Starts for Lozinak_114:
(Start: 20 @66615 has 11 MA's), (23, 66645), (27, 66666), (32, 66741), (36, 66756), (39, 66777), (43, 66795), (46, 66816), (54, 66894), (55, 66915),

Gene: Miskis_109 Start: 65566, Stop: 65880, Start Num: 20
Candidate Starts for Miskis_109:
(Start: 20 @65566 has 11 MA's), (23, 65596), (27, 65617), (32, 65692), (36, 65707), (39, 65728), (43, 65746), (46, 65767), (54, 65845),

Gene: MortyNRick_72 Start: 45215, Stop: 45589, Start Num: 18
Candidate Starts for MortyNRick_72:
(Start: 18 @45215 has 3 MA's), (32, 45392), (33, 45398), (35, 45404), (38, 45428), (46, 45479), (51, 45509), (53, 45551), (55, 45578),

Gene: Norvs_115 Start: 66437, Stop: 66802, Start Num: 20
Candidate Starts for Norvs_115:
(Start: 20 @66437 has 11 MA's), (36, 66629), (38, 66641), (39, 66650), (43, 66668), (46, 66689), (54, 66767), (55, 66788),

Gene: Pepperoni_53 Start: 34740, Stop: 35117, Start Num: 19
Candidate Starts for Pepperoni_53:
(8, 34590), (16, 34725), (Start: 19 @34740 has 7 MA's), (26, 34788), (33, 34899), (36, 34914), (37, 34917), (43, 34962),

Gene: PhinkBoden_114 Start: 66904, Stop: 67218, Start Num: 20
Candidate Starts for PhinkBoden_114:
(Start: 20 @66904 has 11 MA's), (23, 66934), (27, 66955), (32, 67030), (36, 67045), (39, 67066), (43, 67084), (46, 67105), (54, 67183), (55, 67204),

Gene: Pupper_232 Start: 149879, Stop: 150214, Start Num: 21
Candidate Starts for Pupper_232:
(14, 149834), (Start: 21 @149879 has 2 MA's), (23, 149906), (32, 150005), (33, 150011), (41, 150059), (42, 150062), (52, 150152), (56, 150200),

Gene: RogerDodger_9 Start: 4423, Stop: 4731, Start Num: 19
Candidate Starts for RogerDodger_9:
(5, 4228), (6, 4237), (10, 4363), (Start: 19 @4423 has 7 MA's), (22, 4435), (23, 4456), (25, 4468), (27, 4477), (28, 4480), (45, 4621), (53, 4693),

Gene: SCentae_232 Start: 150365, Stop: 150700, Start Num: 21
Candidate Starts for SCentae_232:
(14, 150320), (Start: 21 @150365 has 2 MA's), (23, 150392), (32, 150491), (33, 150497), (41, 150545), (42, 150548), (52, 150638), (56, 150686),

Gene: Smoothie_115 Start: 66615, Stop: 66929, Start Num: 20
Candidate Starts for Smoothie_115:
(Start: 20 @66615 has 11 MA's), (23, 66645), (27, 66666), (32, 66741), (36, 66756), (39, 66777), (43, 66795), (46, 66816), (54, 66894), (55, 66915),

Gene: Valary_9 Start: 4423, Stop: 4731, Start Num: 19
Candidate Starts for Valary_9:
(Start: 19 @4423 has 7 MA's), (22, 4435), (23, 4456), (25, 4468), (27, 4477), (28, 4480), (33, 4558), (45, 4621), (53, 4693),

Gene: VanDeWege_9 Start: 4309, Stop: 4659, Start Num: 19
Candidate Starts for VanDeWege_9:
(2, 4051), (10, 4249), (Start: 19 @4309 has 7 MA's), (23, 4342), (27, 4363), (28, 4366), (33, 4444), (36, 4462), (39, 4483), (50, 4555),