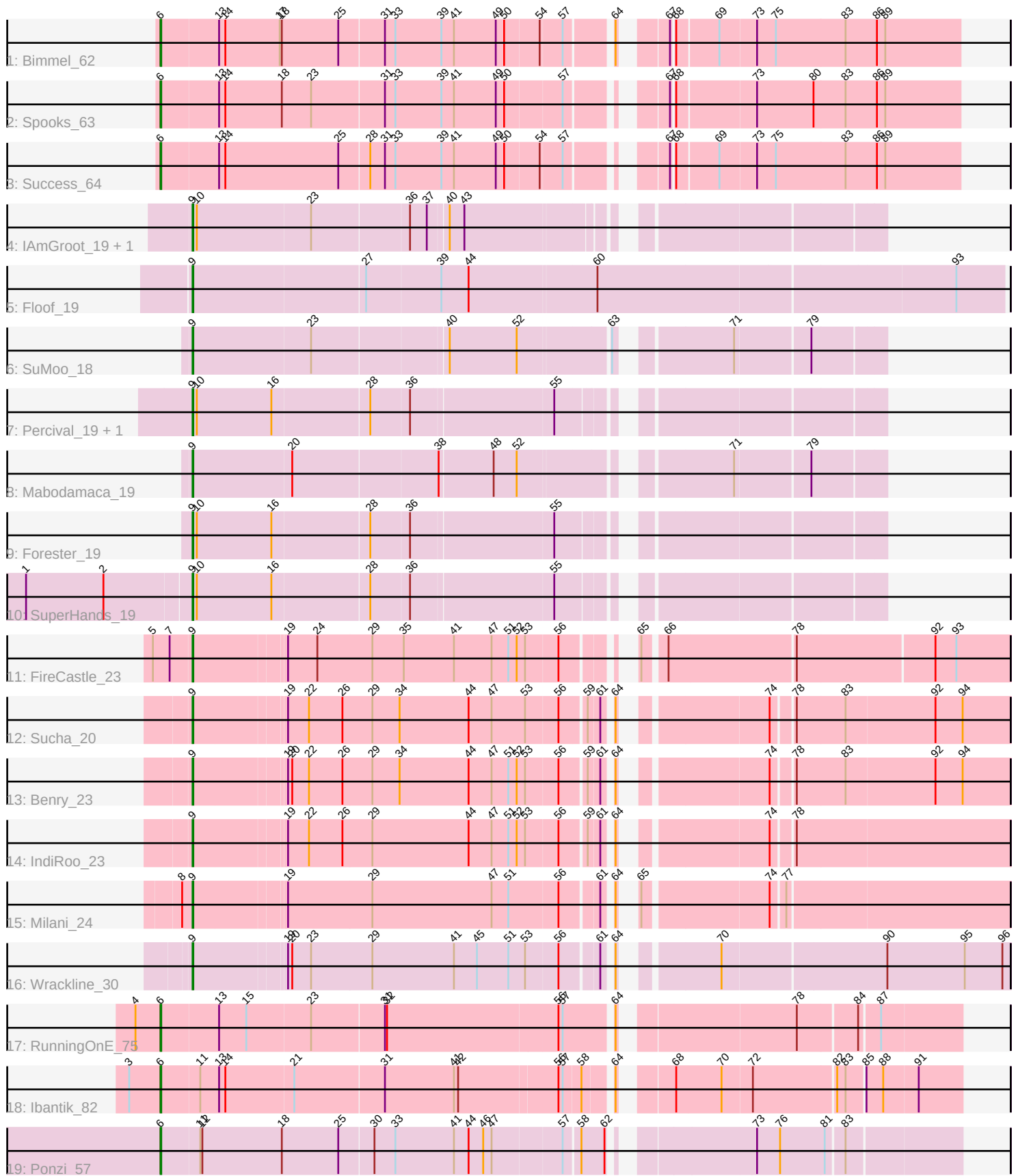


Pham 331230



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 331230 Report

This analysis was run 09/05/26 on database version 662.

WARNING: Pham size does not match number of genes in report. Either unphamerated genes have been added (by you) or starterator has removed genes due to invalid start codon.

Pham number 331230 has 21 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Bimmel_62
- Track 2 : Spooks_63
- Track 3 : Success_64
- Track 4 : IAmGroot_19, GardenState_19
- Track 5 : Floof_19
- Track 6 : SuMoo_18
- Track 7 : Percival_19, Gretchen_19
- Track 8 : Mabodamaca_19
- Track 9 : Forester_19
- Track 10 : SuperHands_19
- Track 11 : FireCastle_23
- Track 12 : Sucha_20
- Track 13 : Benry_23
- Track 14 : IndiRoo_23
- Track 15 : Milani_24
- Track 16 : Wrackline_30
- Track 17 : RunningOnE_75
- Track 18 : Ibantik_82
- Track 19 : Ponzi_57

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

The start number called the most often in the published annotations is 9, it was called in 15 of the 21 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Benry_23, FireCastle_23, Floof_19, Forester_19, GardenState_19, Gretchen_19, IAmGroot_19, IndiRoo_23, Mabodamaca_19, Milani_24, Percival_19, SuMoo_18, Sucha_20, SuperHands_19, Wrackline_30,

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

-

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

- Bimmel_62, Ibantik_82, Ponzi_57, RunningOnE_75, Spooks_63, Success_64,

Summary by start number:

Start 6:

- Found in 6 of 21 (28.6%) of genes in pham
- Manual Annotations of this start: 6 of 21
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bimmel_62 (BT), Ibantik_82 (JN), Ponzi_57 (singleton), RunningOnE_75 (JN), Spooks_63 (BT), Success_64 (BT),

Start 9:

- Found in 15 of 21 (71.4%) of genes in pham
- Manual Annotations of this start: 15 of 21
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Benry_23 (EJ), FireCastle_23 (EJ), Floof_19 (EH), Forester_19 (EH), GardenState_19 (EH), Gretchen_19 (EH), IAmGroot_19 (EH), IndiRoo_23 (EJ), Mabodamaca_19 (EH), Milani_24 (EJ), Percival_19 (EH), SuMoo_18 (EH), Sucha_20 (EJ), SuperHands_19 (EH), Wrackline_30 (GF),

Summary by clusters:

There are 6 clusters represented in this pham: singleton, EH, EJ, BT, GF, JN,

Info for manual annotations of cluster BT:

- Start number 6 was manually annotated 3 times for cluster BT.

Info for manual annotations of cluster EH:

- Start number 9 was manually annotated 9 times for cluster EH.

Info for manual annotations of cluster EJ:

- Start number 9 was manually annotated 5 times for cluster EJ.

Info for manual annotations of cluster GF:

- Start number 9 was manually annotated 1 time for cluster GF.

Info for manual annotations of cluster JN:

- Start number 6 was manually annotated 2 times for cluster JN.

Gene Information:

Gene: Benry_23 Start: 16825, Stop: 17892, Start Num: 9

Candidate Starts for Benry_23:

(Start: 9 @16825 has 15 MA's), (19, 16948), (20, 16954), (22, 16978), (26, 17026), (29, 17068), (34, 17107), (44, 17206), (47, 17239), (51, 17263), (52, 17275), (53, 17287), (56, 17332), (59, 17365), (61, 17380), (64, 17389), (74, 17563), (78, 17590), (83, 17659), (92, 17785), (94, 17824),

Gene: Bimmel_62 Start: 39994, Stop: 41061, Start Num: 6

Candidate Starts for Bimmel_62:

(Start: 6 @39994 has 6 MA's), (13, 40075), (14, 40084), (17, 40162), (18, 40165), (25, 40246), (31, 40309), (33, 40324), (39, 40390), (41, 40408), (49, 40468), (50, 40480), (54, 40528), (57, 40558), (64, 40615), (67, 40660), (68, 40663), (69, 40720), (73, 40771), (75, 40798), (83, 40897), (86, 40942), (89, 40954),

Gene: FireCastle_23 Start: 18399, Stop: 19472, Start Num: 9

Candidate Starts for FireCastle_23:

(5, 18345), (7, 18369), (Start: 9 @18399 has 15 MA's), (19, 18522), (24, 18564), (29, 18642), (35, 18687), (41, 18759), (47, 18813), (51, 18837), (52, 18849), (53, 18861), (56, 18906), (65, 18969), (66, 18996), (78, 19173), (92, 19365), (93, 19395),

Gene: Floof_19 Start: 15888, Stop: 17012, Start Num: 9

Candidate Starts for Floof_19:

(Start: 9 @15888 has 15 MA's), (27, 16128), (39, 16233), (44, 16272), (60, 16449), (93, 16944),

Gene: Forester_19 Start: 17869, Stop: 18762, Start Num: 9

Candidate Starts for Forester_19:

(Start: 9 @17869 has 15 MA's), (10, 17875), (16, 17980), (28, 18115), (36, 18169), (55, 18364),

Gene: GardenState_19 Start: 16381, Stop: 17271, Start Num: 9

Candidate Starts for GardenState_19:

(Start: 9 @16381 has 15 MA's), (10, 16387), (23, 16546), (36, 16681), (37, 16705), (40, 16729), (43, 16750),

Gene: Gretchen_19 Start: 17157, Stop: 18050, Start Num: 9

Candidate Starts for Gretchen_19:

(Start: 9 @17157 has 15 MA's), (10, 17163), (16, 17268), (28, 17403), (36, 17457), (55, 17652),

Gene: IAmGroot_19 Start: 17043, Stop: 17933, Start Num: 9

Candidate Starts for IAmGroot_19:

(Start: 9 @17043 has 15 MA's), (10, 17049), (23, 17208), (36, 17343), (37, 17367), (40, 17391), (43, 17412),

Gene: Ibantik_82 Start: 44194, Stop: 45255, Start Num: 6

Candidate Starts for Ibantik_82:

(3, 44149), (Start: 6 @44194 has 6 MA's), (11, 44248), (13, 44275), (14, 44284), (21, 44380), (31, 44506), (41, 44605), (42, 44611), (56, 44749), (57, 44755), (58, 44779), (64, 44812), (68, 44866), (70, 44929), (72, 44971), (82, 45085), (83, 45097), (85, 45121), (88, 45145), (91, 45193),

Gene: IndiRoo_23 Start: 16835, Stop: 17902, Start Num: 9

Candidate Starts for IndiRoo_23:

(Start: 9 @16835 has 15 MA's), (19, 16958), (22, 16988), (26, 17036), (29, 17078), (44, 17216), (47, 17249), (51, 17273), (52, 17285), (53, 17297), (56, 17342), (59, 17375), (61, 17390), (64, 17399), (74, 17573), (78, 17600),

Gene: Mabodamaca_19 Start: 16389, Stop: 17288, Start Num: 9

Candidate Starts for Mabodamaca_19:

(Start: 9 @16389 has 15 MA's), (20, 16527), (38, 16725), (48, 16800), (52, 16833), (71, 17088), (79, 17190),

Gene: Milani_24 Start: 17465, Stop: 18532, Start Num: 9

Candidate Starts for Milani_24:

(8, 17450), (Start: 9 @17465 has 15 MA's), (19, 17588), (29, 17708), (47, 17879), (51, 17903), (56, 17972), (61, 18020), (64, 18029), (65, 18035), (74, 18203), (77, 18221),

Gene: Percival_19 Start: 16991, Stop: 17884, Start Num: 9

Candidate Starts for Percival_19:

(Start: 9 @16991 has 15 MA's), (10, 16997), (16, 17102), (28, 17237), (36, 17291), (55, 17486),

Gene: Ponzi_57 Start: 38784, Stop: 39848, Start Num: 6

Candidate Starts for Ponzi_57:

(Start: 6 @38784 has 6 MA's), (11, 38838), (12, 38841), (18, 38955), (25, 39036), (30, 39084), (33, 39114), (41, 39198), (44, 39219), (46, 39240), (47, 39252), (57, 39348), (58, 39369), (62, 39402), (73, 39570), (76, 39603), (81, 39666), (83, 39690),

Gene: RunningOnE_75 Start: 43037, Stop: 44104, Start Num: 6

Candidate Starts for RunningOnE_75:

(4, 43001), (Start: 6 @43037 has 6 MA's), (13, 43118), (15, 43157), (23, 43247), (31, 43349), (32, 43352), (56, 43592), (57, 43598), (64, 43661), (78, 43883), (84, 43964), (87, 43991),

Gene: Spooks_63 Start: 41298, Stop: 42365, Start Num: 6

Candidate Starts for Spooks_63:

(Start: 6 @41298 has 6 MA's), (13, 41379), (14, 41388), (18, 41469), (23, 41511), (31, 41613), (33, 41628), (39, 41694), (41, 41712), (49, 41772), (50, 41784), (57, 41862), (67, 41964), (68, 41967), (73, 42075), (80, 42156), (83, 42201), (86, 42246), (89, 42258),

Gene: SuMoo_18 Start: 15340, Stop: 16239, Start Num: 9

Candidate Starts for SuMoo_18:

(Start: 9 @15340 has 15 MA's), (23, 15505), (40, 15688), (52, 15784), (63, 15904), (71, 16039), (79, 16141),

Gene: Success_64 Start: 40432, Stop: 41499, Start Num: 6

Candidate Starts for Success_64:

(Start: 6 @40432 has 6 MA's), (13, 40513), (14, 40522), (25, 40684), (28, 40726), (31, 40747), (33, 40762), (39, 40828), (41, 40846), (49, 40906), (50, 40918), (54, 40966), (57, 40996), (67, 41098), (68, 41101), (69, 41158), (73, 41209), (75, 41236), (83, 41335), (86, 41380), (89, 41392),

Gene: Sucha_20 Start: 15822, Stop: 16889, Start Num: 9

Candidate Starts for Sucha_20:

(Start: 9 @15822 has 15 MA's), (19, 15945), (22, 15975), (26, 16023), (29, 16065), (34, 16104), (44, 16203), (47, 16236), (53, 16284), (56, 16329), (59, 16362), (61, 16377), (64, 16386), (74, 16560), (78, 16587), (83, 16656), (92, 16782), (94, 16821),

Gene: SuperHands_19 Start: 17876, Stop: 18769, Start Num: 9

Candidate Starts for SuperHands_19:

(1, 17648), (2, 17759), (Start: 9 @17876 has 15 MA's), (10, 17882), (16, 17987), (28, 18122), (36, 18176), (55, 18371),

Gene: Wrackline_30 Start: 18090, Stop: 19166, Start Num: 9

Candidate Starts for Wrackline_30:

(Start: 9 @18090 has 15 MA's), (19, 18213), (20, 18219), (23, 18246), (29, 18333), (41, 18450), (45, 18483), (51, 18528), (53, 18552), (56, 18597), (61, 18645), (64, 18654), (70, 18762), (90, 18990), (95, 19101), (96, 19155),

