Pham 347851


1: MrMiyagi_6 + 1
2: Cuke_5
3: Onyinye_24
4: Leopard_23 + 1
5: Terapin_8 + 5
6: LilyPad_9
7: Suzy_9
8: LittleFella_9
9: Predator_15
10: Nish23_12
11: Beckerton_11 + 4
12: Ruissant_12
13: Phreeze_11 + 3
14: Barnyard_17
15: AmandaPanda_18 + 1
16: Madruga_17 + 4

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 347851 Report

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

Pham number 347851 has 35 members, 3 are drafts.

Phages represented in each track:
• Track 1 : MrMiyagi_6, Fowlmouth_6
• Track 2 : Cuke_5
• Track 3 : Onyinye_24
• Track 4 : Leopard_23, Aikoy_23
• Track 5 : Terapin_8, Sienna_8, Djokovic_8, BiteSize_8, Beyoncage_8, Madi_8
• Track 6 : LilyPad_9
• Track 7 : Suzy_9
• Track 8 : LittleFella_9
• Track 9 : Predator_15
• Track 10 : Nish23_12
• Track 11 : Beckerton_11, Cborch11_12, Damien_11, Konstantine_16, Megatron06_13
• Track 12 : Puissant_12
• Track 13 : Phreeze_11, Thumb_11, BobtimousPrime_13, Oaker_11
• Track 14 : Barnyard_17
• Track 15 : AmandaPanda_18, DrLupo_19
• Track 16 : Madruga_17, Demikore_19, Patience_19, Labelle_18, SuperSonics_18

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

The start number called the most often in the published annotations is 7, it was called in 11 of the 32 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Beyoncage_8, BiteSize_8, Cuke_5, Djokovic_8, Fowlmouth_6, LilyPad_9, Madi_8, MrMiyagi_6, Sienna_8, Suzy_9, Terapin_8,

Genes that have the "Most Annotated" start but do not call it:
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Genes that do not have the "Most Annotated" start:
• Aikoy_23, AmandaPanda_18, Barnyard_17, Beckerton_11, BobtimousPrime_13, Cborch11_12, Damien_11, Demikore_19, DrLupo_19, Konstantine_16, Labelle_18, Leopard_23, LittleFella_9, Madruga_17, Megatron06_13, Nish23_12, Oaker_11,

Onyinye_24, Patience_19, Phreeze_11, Predator_15, Puissant_12, SuperSonics_18, Thumb_11,

Summary by start number:

Start 1:
• Found in 12 of 35 (34.3%) of genes in pham
• Manual Annotations of this start: 11 of 32
• Called 91.7% of time when present
• Phage (with cluster) where this start called: Beckerton_11 (H1), BobtimousPrime_13 (H1), Cborch11_12 (H1), Damien_11 (H1), Konstantine_16 (H1), Megatron06_13 (H1), Oaker_11 (H1), Phreeze_11 (H1), Predator_15 (H1), Puissant_12 (H1), Thumb_11 (H1),

Start 2:
• Found in 7 of 35 (20.0%) of genes in pham
• Manual Annotations of this start: 5 of 32
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AmandaPanda_18 (H2), Demikore_19 (U), DrLupo_19 (H2), Labelle_18 (U), Madruga_17 (U), Patience_19 (U), SuperSonics_18 (U),

Start 3:
• Found in 3 of 35 (8.6%) of genes in pham
• Manual Annotations of this start: 1 of 32
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Barnyard_17 (H2),

Start 7:
• Found in 11 of 35 (31.4%) of genes in pham
• Manual Annotations of this start: 11 of 32
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Beyoncage_8 (DG1), BiteSize_8 (DG1), Cuke_5 (AC), Djokovic_8 (DG1), Fowlmouth_6 (AC), LilyPad_9 (DG1), Madi_8 (DG1), MrMiyagi_6 (AC), Sienna_8 (DG1), Suzy_9 (DG1), Terapin_8 (DG1),

Start 9:
• Found in 1 of 35 (2.9%) of genes in pham
• Manual Annotations of this start: 1 of 32
• Called 100.0% of time when present
• Phage (with cluster) where this start called: LittleFella_9 (DG2),

Start 10:
• Found in 12 of 35 (34.3%) of genes in pham
• No Manual Annotations of this start.
• Called 8.3% of time when present
• Phage (with cluster) where this start called: Nish23_12 (H1),

Start 51:
• Found in 3 of 35 (8.6%) of genes in pham
• Manual Annotations of this start: 3 of 32
• Called 100.0% of time when present

• Phage (with cluster) where this start called: Aikoy_23 (AE), Leopard_23 (AE), Onyinye_24 (AE),

Summary by clusters:

There are 7 clusters represented in this pham: AC, AE, H2, H1, DG2, DG1, U,

Info for manual annotations of cluster AC:
•Start number 7 was manually annotated 3 times for cluster AC.

Info for manual annotations of cluster AE:
•Start number 51 was manually annotated 3 times for cluster AE.

Info for manual annotations of cluster DG1:
•Start number 7 was manually annotated 8 times for cluster DG1.

Info for manual annotations of cluster DG2:
•Start number 9 was manually annotated 1 time for cluster DG2.

Info for manual annotations of cluster H1:
•Start number 1 was manually annotated 11 times for cluster H1.

Info for manual annotations of cluster H2:
•Start number 2 was manually annotated 1 time for cluster H2.
•Start number 3 was manually annotated 1 time for cluster H2.

Info for manual annotations of cluster U:
•Start number 2 was manually annotated 4 times for cluster U.

Gene Information:

Gene: Aikoy_23 Start: 14234, Stop: 14578, Start Num: 51
Candidate Starts for Aikoy_23:
(13, 13805), (18, 13832), (31, 13955), (36, 14030), (45, 14132), (49, 14177), (50, 14210), (Start: 51 @14234 has 3 MA's), (52, 14276), (53, 14285), (54, 14294), (55, 14333), (57, 14405), (58, 14483), (59, 14561), (60, 14567), (61, 14570),

Gene: AmandaPanda_18 Start: 9386, Stop: 9832, Start Num: 2
Candidate Starts for AmandaPanda_18:
(Start: 2 @9386 has 5 MA's), (Start: 3 @9392 has 1 MA's), (5, 9434), (6, 9443), (11, 9488), (15, 9512), (20, 9554), (34, 9695), (41, 9773), (43, 9794), (47, 9827),

Gene: Barnyard_17 Start: 8976, Stop: 9416, Start Num: 3
Candidate Starts for Barnyard_17:
(Start: 3 @8976 has 1 MA's), (11, 9072), (15, 9096), (20, 9138), (41, 9357), (44, 9393),

Gene: Beckerton_11 Start: 8047, Stop: 8505, Start Num: 1
Candidate Starts for Beckerton_11:
(Start: 1 @8047 has 11 MA's), (8, 8128), (10, 8137), (35, 8374), (37, 8398), (42, 8464), (47, 8500),

Gene: Beyoncage_8 Start: 5498, Stop: 5872, Start Num: 7

Candidate Starts for Beyoncage_8:
(Start: 7 @5498 has 11 MA's), (26, 5645), (35, 5732), (44, 5834),

Gene: BiteSize_8 Start: 5498, Stop: 5872, Start Num: 7
Candidate Starts for BiteSize_8:
(Start: 7 @5498 has 11 MA's), (26, 5645), (35, 5732), (44, 5834),

Gene: BobtimousPrime_13 Start: 7967, Stop: 8425, Start Num: 1
Candidate Starts for BobtimousPrime_13:
(Start: 1 @7967 has 11 MA's), (8, 8048), (10, 8057), (17, 8111), (35, 8294), (37, 8318), (42, 8384), (47, 8420),

Gene: Cborch11_12 Start: 7512, Stop: 7970, Start Num: 1
Candidate Starts for Cborch11_12:
(Start: 1 @7512 has 11 MA's), (8, 7593), (10, 7602), (35, 7839), (37, 7863), (42, 7929), (47, 7965),

Gene: Cuke_5 Start: 3636, Stop: 4034, Start Num: 7
Candidate Starts for Cuke_5:
(Start: 7 @3636 has 11 MA's), (14, 3696), (18, 3711), (21, 3747), (28, 3810), (40, 3927), (43, 3969),

Gene: Damien_11 Start: 7512, Stop: 7970, Start Num: 1
Candidate Starts for Damien_11:
(Start: 1 @7512 has 11 MA's), (8, 7593), (10, 7602), (35, 7839), (37, 7863), (42, 7929), (47, 7965),

Gene: Demikore_19 Start: 10518, Stop: 10958, Start Num: 2
Candidate Starts for Demikore_19:
(Start: 2 @10518 has 5 MA's), (4, 10527), (18, 10650), (19, 10665), (27, 10740), (28, 10752), (34, 10815), (39, 10872), (42, 10911),

Gene: Djokovic_8 Start: 5498, Stop: 5872, Start Num: 7
Candidate Starts for Djokovic_8:
(Start: 7 @5498 has 11 MA's), (26, 5645), (35, 5732), (44, 5834),

Gene: DrLupo_19 Start: 9386, Stop: 9832, Start Num: 2
Candidate Starts for DrLupo_19:
(Start: 2 @9386 has 5 MA's), (Start: 3 @9392 has 1 MA's), (5, 9434), (6, 9443), (11, 9488), (15, 9512), (20, 9554), (34, 9695), (41, 9773), (43, 9794), (47, 9827),

Gene: Fowlmouth_6 Start: 3802, Stop: 4200, Start Num: 7
Candidate Starts for Fowlmouth_6:
(Start: 7 @3802 has 11 MA's), (18, 3877), (21, 3913), (28, 3976), (38, 4078),

Gene: Konstantine_16 Start: 8711, Stop: 9169, Start Num: 1
Candidate Starts for Konstantine_16:
(Start: 1 @8711 has 11 MA's), (8, 8792), (10, 8801), (35, 9038), (37, 9062), (42, 9128), (47, 9164),

Gene: Labelle_18 Start: 10520, Stop: 10960, Start Num: 2
Candidate Starts for Labelle_18:
(Start: 2 @10520 has 5 MA's), (4, 10529), (18, 10652), (19, 10667), (27, 10742), (28, 10754), (34, 10817), (39, 10874), (42, 10913),

Gene: Leopard_23 Start: 14519, Stop: 14863, Start Num: 51
Candidate Starts for Leopard_23:

(13, 14090), (18, 14117), (31, 14240), (36, 14315), (45, 14417), (49, 14462), (50, 14495), (Start: 51 @14519 has 3 MA's), (52, 14561), (53, 14570), (54, 14579), (55, 14618), (57, 14690), (58, 14768), (59, 14846), (60, 14852), (61, 14855),

Gene: LilyPad_9 Start: 6255, Stop: 6629, Start Num: 7
Candidate Starts for LilyPad_9:
(Start: 7 @6255 has 11 MA's), (20, 6360), (28, 6429), (30, 6444), (32, 6453), (33, 6480), (44, 6591), (48, 6612),

Gene: LittleFella_9 Start: 7272, Stop: 7697, Start Num: 9
Candidate Starts for LittleFella_9:
(Start: 9 @7272 has 1 MA's), (12, 7299), (19, 7347), (22, 7377), (25, 7407), (28, 7440), (29, 7458), (37, 7545), (46, 7647),

Gene: Madi_8 Start: 5498, Stop: 5872, Start Num: 7
Candidate Starts for Madi_8:
(Start: 7 @5498 has 11 MA's), (26, 5645), (35, 5732), (44, 5834),

Gene: Madruga_17 Start: 10188, Stop: 10628, Start Num: 2
Candidate Starts for Madruga_17:
(Start: 2 @10188 has 5 MA's), (4, 10197), (18, 10320), (19, 10335), (27, 10410), (28, 10422), (34, 10485), (39, 10542), (42, 10581),

Gene: Megatron06_13 Start: 8047, Stop: 8505, Start Num: 1
Candidate Starts for Megatron06_13:
(Start: 1 @8047 has 11 MA's), (8, 8128), (10, 8137), (35, 8374), (37, 8398), (42, 8464), (47, 8500),

Gene: MrMiyagi_6 Start: 3802, Stop: 4200, Start Num: 7
Candidate Starts for MrMiyagi_6:
(Start: 7 @3802 has 11 MA's), (18, 3877), (21, 3913), (28, 3976), (38, 4078),

Gene: Nish23_12 Start: 7602, Stop: 7970, Start Num: 10
Candidate Starts for Nish23_12:
(Start: 1 @7512 has 11 MA's), (8, 7593), (10, 7602), (35, 7839), (37, 7863), (42, 7929), (47, 7965),

Gene: Oaker_11 Start: 7768, Stop: 8226, Start Num: 1
Candidate Starts for Oaker_11:
(Start: 1 @7768 has 11 MA's), (8, 7849), (10, 7858), (17, 7912), (35, 8095), (37, 8119), (42, 8185), (47, 8221),

Gene: Onyinye_24 Start: 14400, Stop: 14744, Start Num: 51
Candidate Starts for Onyinye_24:
(13, 13971), (18, 13998), (31, 14121), (36, 14196), (45, 14298), (49, 14343), (50, 14376), (Start: 51 @14400 has 3 MA's), (52, 14442), (53, 14451), (54, 14460), (55, 14499), (56, 14502), (57, 14571), (58, 14649), (59, 14727), (60, 14733), (61, 14736),

Gene: Patience_19 Start: 11079, Stop: 11519, Start Num: 2
Candidate Starts for Patience_19:
(Start: 2 @11079 has 5 MA's), (4, 11088), (18, 11211), (19, 11226), (27, 11301), (28, 11313), (34, 11376), (39, 11433), (42, 11472),

Gene: Phreeze_11 Start: 7512, Stop: 7970, Start Num: 1
Candidate Starts for Phreeze_11:

(Start: 1 @7512 has 11 MA's), (8, 7593), (10, 7602), (17, 7656), (35, 7839), (37, 7863), (42, 7929), (47, 7965),

Gene: Predator_15 Start: 9029, Stop: 9472, Start Num: 1
Candidate Starts for Predator_15:
(Start: 1 @9029 has 11 MA's), (10, 9119), (15, 9164), (16, 9170), (23, 9221), (35, 9341),

Gene: Puissant_12 Start: 7930, Stop: 8388, Start Num: 1
Candidate Starts for Puissant_12:
(Start: 1 @7930 has 11 MA's), (8, 8011), (10, 8020), (20, 8107), (35, 8257), (37, 8281), (42, 8347), (47, 8383),

Gene: Sienna_8 Start: 5498, Stop: 5872, Start Num: 7
Candidate Starts for Sienna_8:
(Start: 7 @5498 has 11 MA's), (26, 5645), (35, 5732), (44, 5834),

Gene: SuperSonics_18 Start: 10246, Stop: 10686, Start Num: 2
Candidate Starts for SuperSonics_18:
(Start: 2 @10246 has 5 MA's), (4, 10255), (18, 10378), (19, 10393), (27, 10468), (28, 10480), (34, 10543), (39, 10600), (42, 10639),

Gene: Suzy_9 Start: 6741, Stop: 7115, Start Num: 7
Candidate Starts for Suzy_9:
(Start: 7 @6741 has 11 MA's), (20, 6846), (21, 6852), (24, 6867), (34, 6969), (41, 7047), (44, 7077),

Gene: Terapin_8 Start: 5498, Stop: 5872, Start Num: 7
Candidate Starts for Terapin_8:
(Start: 7 @5498 has 11 MA's), (26, 5645), (35, 5732), (44, 5834),

Gene: Thumb_11 Start: 7513, Stop: 7971, Start Num: 1
Candidate Starts for Thumb_11:
(Start: 1 @7513 has 11 MA's), (8, 7594), (10, 7603), (17, 7657), (35, 7840), (37, 7864), (42, 7930), (47, 7966),