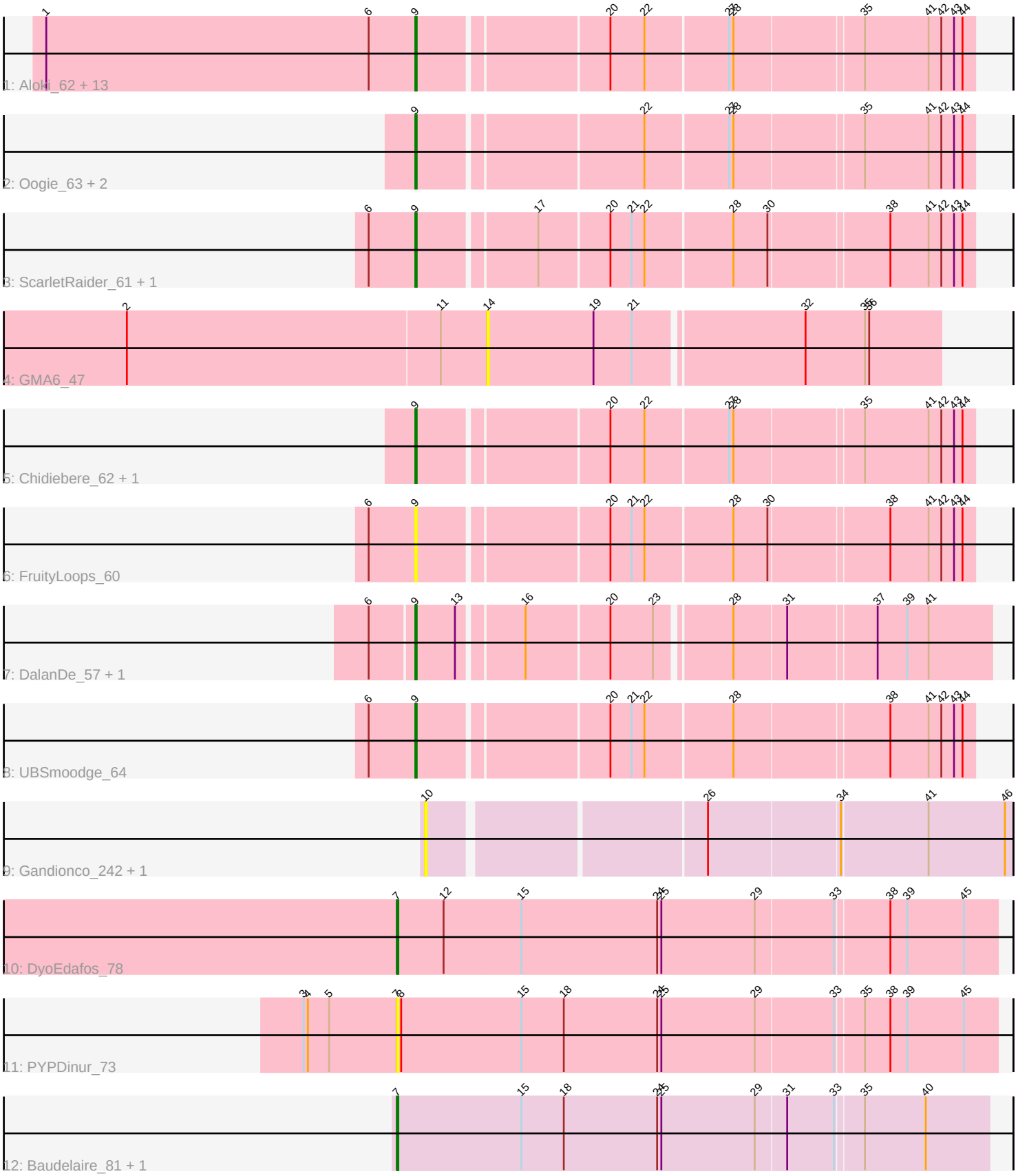
Pham 309004


1: Aloki_62 + 13
2: Oogie_63 + 2
3: ScarletRaider_61 + 1
4: GMA6_47
5: Chidiebere_62 + 1
6: FruityLoops_60
7: DalanDe_57 + 1
8: UBSmoodge_64
9: Gandionco_242 + 1
10: DyoEdafos_78
11: PYPDinur_73
12: Baudelaire_81 + 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 309004 Report

This analysis was run 06/27/26 on database version 652.

Pham number 309004 has 32 members, 17 are drafts.

Phages represented in each track:
• Track 1 : Aloki_62, Gray_62, Argena_60, Toneprano_60, EmoNemo_60, Mikronejon_60, Schomber_61, Amoonguss_60, Pakusa_60, Hanem_62, Farrylious_60, Kabocha_63, Twin_60, ChisanaKitsune_58
• Track 2 : Oogie_63, Beted_62, Lenoshki_62
• Track 3 : ScarletRaider_61, FlyingTortilla_62
• Track 4 : GMA6_47
• Track 5 : Chidiebere_62, MintFritos_60
• Track 6 : FruityLoops_60
• Track 7 : DalanDe_57, Thales_56
• Track 8 : UBSmoodge_64
• Track 9 : Gandionco_242, Marianna39_242
• Track 10 : DyoEdafos_78
• Track 11 : PYPDinur_73
• Track 12 : Baudelaire_81, Aegeus_81

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

Genes that call this "Most Annotated" start:
• Aloki_62, Amoonguss_60, Argena_60, Beted_62, Chidiebere_62, ChisanaKitsune_58, DalanDe_57, EmoNemo_60, Farrylious_60, FlyingTortilla_62, FruityLoops_60, Gray_62, Hanem_62, Kabocha_63, Lenoshki_62, Mikronejon_60, MintFritos_60, Oogie_63, Pakusa_60, ScarletRaider_61, Schomber_61, Thales_56, Toneprano_60, Twin_60, UBSmoodge_64,

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

Genes that do not have the "Most Annotated" start:
• Aegeus_81, Baudelaire_81, DyoEdafos_78, GMA6_47, Gandionco_242, Marianna39_242, PYPDinur_73,

Summary by start number:

Start 7:
• Found in 4 of 32 (12.5%) of genes in pham
• Manual Annotations of this start: 3 of 15
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Aegeus_81 (L5), Baudelaire_81 (L5), DyoEdafos_78 (L4), PYPDinur_73 (L4),

Start 9:
• Found in 25 of 32 (78.1%) of genes in pham
• Manual Annotations of this start: 12 of 15
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Aloki_62 (DQ), Amoonguss_60 (DQ), Argena_60 (DQ), Beted_62 (DQ), Chidiebere_62 (DQ), ChisanaKitsune_58 (DQ), DalanDe_57 (DQ), EmoNemo_60 (DQ), Farrylious_60 (DQ), FlyingTortilla_62 (DQ), FruityLoops_60 (DQ), Gray_62 (DQ), Hanem_62 (DQ), Kabocha_63 (DQ), Lenoshki_62 (DQ), Mikronejon_60 (DQ), MintFritos_60 (DQ), Oogie_63 (DQ), Pakusa_60 (DQ), ScarletRaider_61 (DQ), Schomber_61 (DQ), Thales_56 (DQ), Toneprano_60 (DQ), Twin_60 (DQ), UBSmoodge_64 (DQ),

Start 10:
• Found in 2 of 32 (6.2%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Gandionco_242 (FK), Marianna39_242 (FK),

Start 14:
• Found in 1 of 32 (3.1%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: GMA6_47 (DQ),

Summary by clusters:

There are 4 clusters represented in this pham: L4, FK, L5, DQ,

Info for manual annotations of cluster DQ:
•Start number 9 was manually annotated 12 times for cluster DQ.

Info for manual annotations of cluster L4:
•Start number 7 was manually annotated 1 time for cluster L4.

Info for manual annotations of cluster L5:
•Start number 7 was manually annotated 2 times for cluster L5.

Gene Information:

Gene: Aegeus_81 Start: 50995, Stop: 51405, Start Num: 7

Candidate Starts for Aegeus_81:
(Start: 7 @50995 has 3 MA's), (15, 51082), (18, 51112), (24, 51178), (25, 51181), (29, 51247), (31, 51268), (33, 51301), (35, 51319), (40, 51361),

Gene: Aloki_62 Start: 50472, Stop: 50846, Start Num: 9
Candidate Starts for Aloki_62:
(1, 50211), (6, 50439), (Start: 9 @50472 has 12 MA's), (20, 50598), (22, 50622), (27, 50679), (28, 50682), (35, 50769), (41, 50814), (42, 50823), (43, 50832), (44, 50838),

Gene: Amoonguss_60 Start: 50475, Stop: 50849, Start Num: 9
Candidate Starts for Amoonguss_60:
(1, 50214), (6, 50442), (Start: 9 @50475 has 12 MA's), (20, 50601), (22, 50625), (27, 50682), (28, 50685), (35, 50772), (41, 50817), (42, 50826), (43, 50835), (44, 50841),

Gene: Argena_60 Start: 50487, Stop: 50861, Start Num: 9
Candidate Starts for Argena_60:
(1, 50226), (6, 50454), (Start: 9 @50487 has 12 MA's), (20, 50613), (22, 50637), (27, 50694), (28, 50697), (35, 50784), (41, 50829), (42, 50838), (43, 50847), (44, 50853),

Gene: Baudelaire_81 Start: 50995, Stop: 51405, Start Num: 7
Candidate Starts for Baudelaire_81:
(Start: 7 @50995 has 3 MA's), (15, 51082), (18, 51112), (24, 51178), (25, 51181), (29, 51247), (31, 51268), (33, 51301), (35, 51319), (40, 51361),

Gene: Beted_62 Start: 52167, Stop: 52541, Start Num: 9
Candidate Starts for Beted_62:
(Start: 9 @52167 has 12 MA's), (22, 52317), (27, 52374), (28, 52377), (35, 52464), (41, 52509), (42, 52518), (43, 52527), (44, 52533),

Gene: Chidiebere_62 Start: 50472, Stop: 50846, Start Num: 9
Candidate Starts for Chidiebere_62:
(Start: 9 @50472 has 12 MA's), (20, 50598), (22, 50622), (27, 50679), (28, 50682), (35, 50769), (41, 50814), (42, 50823), (43, 50832), (44, 50838),

Gene: ChisanaKitsune_58 Start: 49266, Stop: 49640, Start Num: 9
Candidate Starts for ChisanaKitsune_58:
(1, 49005), (6, 49233), (Start: 9 @49266 has 12 MA's), (20, 49392), (22, 49416), (27, 49473), (28, 49476), (35, 49563), (41, 49608), (42, 49617), (43, 49626), (44, 49632),

Gene: DalanDe_57 Start: 53394, Stop: 53774, Start Num: 9
Candidate Starts for DalanDe_57:
(6, 53364), (Start: 9 @53394 has 12 MA's), (13, 53421), (16, 53463), (20, 53520), (23, 53550), (28, 53598), (31, 53634), (37, 53694), (39, 53715), (41, 53730),

Gene: DyoEdafos_78 Start: 49663, Stop: 50079, Start Num: 7
Candidate Starts for DyoEdafos_78:
(Start: 7 @49663 has 3 MA's), (12, 49696), (15, 49750), (24, 49846), (25, 49849), (29, 49915), (33, 49969), (38, 50005), (39, 50017), (45, 50056),

Gene: EmoNemo_60 Start: 50472, Stop: 50846, Start Num: 9
Candidate Starts for EmoNemo_60:
(1, 50211), (6, 50439), (Start: 9 @50472 has 12 MA's), (20, 50598), (22, 50622), (27, 50679), (28, 50682), (35, 50769), (41, 50814), (42, 50823), (43, 50832), (44, 50838),

Gene: Farrylious_60 Start: 50251, Stop: 50625, Start Num: 9
Candidate Starts for Farrylious_60:
(1, 49990), (6, 50218), (Start: 9 @50251 has 12 MA's), (20, 50377), (22, 50401), (27, 50458), (28, 50461), (35, 50548), (41, 50593), (42, 50602), (43, 50611), (44, 50617),

Gene: FlyingTortilla_62 Start: 54094, Stop: 54468, Start Num: 9
Candidate Starts for FlyingTortilla_62:
(6, 54061), (Start: 9 @54094 has 12 MA's), (17, 54172), (20, 54220), (21, 54235), (22, 54244), (28, 54304), (30, 54328), (38, 54409), (41, 54436), (42, 54445), (43, 54454), (44, 54460),

Gene: FruityLoops_60 Start: 53399, Stop: 53773, Start Num: 9
Candidate Starts for FruityLoops_60:
(6, 53366), (Start: 9 @53399 has 12 MA's), (20, 53525), (21, 53540), (22, 53549), (28, 53609), (30, 53633), (38, 53714), (41, 53741), (42, 53750), (43, 53759), (44, 53765),

Gene: GMA6_47 Start: 41896, Stop: 42207, Start Num: 14
Candidate Starts for GMA6_47:
(2, 41644), (11, 41863), (14, 41896), (19, 41971), (21, 41998), (32, 42112), (35, 42154), (36, 42157),

Gene: Gandionco_242 Start: 107900, Stop: 108292, Start Num: 10
Candidate Starts for Gandionco_242:
(10, 107900), (26, 108083), (34, 108173), (41, 108233), (46, 108287),

Gene: Gray_62 Start: 50473, Stop: 50847, Start Num: 9
Candidate Starts for Gray_62:
(1, 50212), (6, 50440), (Start: 9 @50473 has 12 MA's), (20, 50599), (22, 50623), (27, 50680), (28, 50683), (35, 50770), (41, 50815), (42, 50824), (43, 50833), (44, 50839),

Gene: Hanem_62 Start: 50472, Stop: 50846, Start Num: 9
Candidate Starts for Hanem_62:
(1, 50211), (6, 50439), (Start: 9 @50472 has 12 MA's), (20, 50598), (22, 50622), (27, 50679), (28, 50682), (35, 50769), (41, 50814), (42, 50823), (43, 50832), (44, 50838),

Gene: Kabocha_63 Start: 51285, Stop: 51659, Start Num: 9
Candidate Starts for Kabocha_63:
(1, 51024), (6, 51252), (Start: 9 @51285 has 12 MA's), (20, 51411), (22, 51435), (27, 51492), (28, 51495), (35, 51582), (41, 51627), (42, 51636), (43, 51645), (44, 51651),

Gene: Lenoshki_62 Start: 52167, Stop: 52541, Start Num: 9
Candidate Starts for Lenoshki_62:
(Start: 9 @52167 has 12 MA's), (22, 52317), (27, 52374), (28, 52377), (35, 52464), (41, 52509), (42, 52518), (43, 52527), (44, 52533),

Gene: Marianna39_242 Start: 108503, Stop: 108895, Start Num: 10
Candidate Starts for Marianna39_242:
(10, 108503), (26, 108686), (34, 108776), (41, 108836), (46, 108890),

Gene: Mikronejon_60 Start: 50472, Stop: 50846, Start Num: 9
Candidate Starts for Mikronejon_60:
(1, 50211), (6, 50439), (Start: 9 @50472 has 12 MA's), (20, 50598), (22, 50622), (27, 50679), (28, 50682), (35, 50769), (41, 50814), (42, 50823), (43, 50832), (44, 50838),

Gene: MintFritos_60 Start: 50473, Stop: 50847, Start Num: 9
Candidate Starts for MintFritos_60:
(Start: 9 @50473 has 12 MA's), (20, 50599), (22, 50623), (27, 50680), (28, 50683), (35, 50770), (41, 50815), (42, 50824), (43, 50833), (44, 50839),

Gene: Oogie_63 Start: 52193, Stop: 52567, Start Num: 9
Candidate Starts for Oogie_63:
(Start: 9 @52193 has 12 MA's), (22, 52343), (27, 52400), (28, 52403), (35, 52490), (41, 52535), (42, 52544), (43, 52553), (44, 52559),

Gene: PYPDinur_73 Start: 49425, Stop: 49841, Start Num: 7
Candidate Starts for PYPDinur_73:
(3, 49359), (4, 49362), (5, 49377), (Start: 7 @49425 has 3 MA's), (8, 49428), (15, 49512), (18, 49542), (24, 49608), (25, 49611), (29, 49677), (33, 49731), (35, 49749), (38, 49767), (39, 49779), (45, 49818),

Gene: Pakusa_60 Start: 50214, Stop: 50588, Start Num: 9
Candidate Starts for Pakusa_60:
(1, 49953), (6, 50181), (Start: 9 @50214 has 12 MA's), (20, 50340), (22, 50364), (27, 50421), (28, 50424), (35, 50511), (41, 50556), (42, 50565), (43, 50574), (44, 50580),

Gene: ScarletRaider_61 Start: 53381, Stop: 53755, Start Num: 9
Candidate Starts for ScarletRaider_61:
(6, 53348), (Start: 9 @53381 has 12 MA's), (17, 53459), (20, 53507), (21, 53522), (22, 53531), (28, 53591), (30, 53615), (38, 53696), (41, 53723), (42, 53732), (43, 53741), (44, 53747),

Gene: Schomber_61 Start: 50222, Stop: 50596, Start Num: 9
Candidate Starts for Schomber_61:
(1, 49961), (6, 50189), (Start: 9 @50222 has 12 MA's), (20, 50348), (22, 50372), (27, 50429), (28, 50432), (35, 50519), (41, 50564), (42, 50573), (43, 50582), (44, 50588),

Gene: Thales_56 Start: 52309, Stop: 52689, Start Num: 9
Candidate Starts for Thales_56:
(6, 52279), (Start: 9 @52309 has 12 MA's), (13, 52336), (16, 52378), (20, 52435), (23, 52465), (28, 52513), (31, 52549), (37, 52609), (39, 52630), (41, 52645),

Gene: Toneprano_60 Start: 50487, Stop: 50861, Start Num: 9
Candidate Starts for Toneprano_60:
(1, 50226), (6, 50454), (Start: 9 @50487 has 12 MA's), (20, 50613), (22, 50637), (27, 50694), (28, 50697), (35, 50784), (41, 50829), (42, 50838), (43, 50847), (44, 50853),

Gene: Twin_60 Start: 50472, Stop: 50846, Start Num: 9
Candidate Starts for Twin_60:
(1, 50211), (6, 50439), (Start: 9 @50472 has 12 MA's), (20, 50598), (22, 50622), (27, 50679), (28, 50682), (35, 50769), (41, 50814), (42, 50823), (43, 50832), (44, 50838),

Gene: UBSmoodge_64 Start: 53863, Stop: 54237, Start Num: 9
Candidate Starts for UBSmoodge_64:
(6, 53830), (Start: 9 @53863 has 12 MA's), (20, 53989), (21, 54004), (22, 54013), (28, 54073), (38, 54178), (41, 54205), (42, 54214), (43, 54223), (44, 54229),