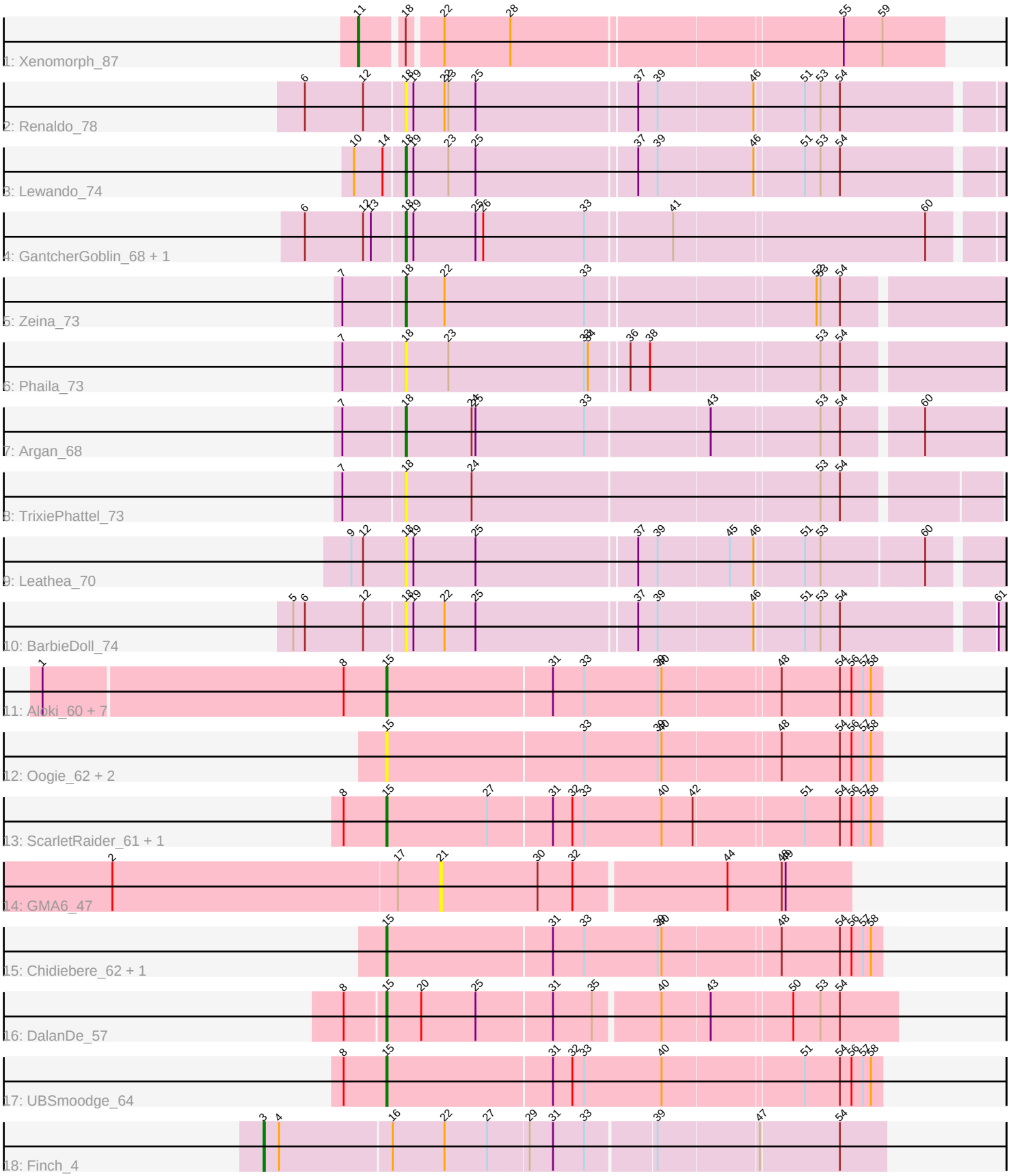
Pham 194242


1: Xenomorph_87
2: Renaldo_78
3: Lewando_74
4: GantcherGoblin_68 + 1
5: Zeina_73
6: Phaila_73
7: Argan_68
8: TrixiePhattel_73
9: Leathea_70
10: BarbieDoll_74
11: Aloki_60 + 7
12: Oogie_62 + 2
13: ScarletRaider_61 + 1
14: GMA6_47
15: Chidiebere_62 + 1
16: DalanDe_57
17: UBSmoodge_64
18: Finch_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 194242 Report

This analysis was run 11/02/24 on database version 579.

Pham number 194242 has 30 members, 13 are drafts.

Phages represented in each track:
• Track 1 : Xenomorph_87
• Track 2 : Renaldo_78
• Track 3 : Lewando_74
• Track 4 : GantcherGoblin_68, Uzumaki_67
• Track 5 : Zeina_73
• Track 6 : Phaila_73
• Track 7 : Argan_68
• Track 8 : TrixiePhattel_73
• Track 9 : Leathea_70
• Track 10 : BarbieDoll_74
• Track 11 : Aloki_60, Gray_62, Schomber_61, Pakusa_60, Hanem_62, Kabocha_63, Twin_60, ChisanaKitsune_58
• Track 12 : Oogie_62, Beted_62, Lenoshki_62
• Track 13 : ScarletRaider_61, FlyingTortilla_62
• Track 14 : GMA6_47
• Track 15 : Chidiebere_62, MintFritos_60
• Track 16 : DalanDe_57
• Track 17 : UBSmoodge_64
• Track 18 : Finch_4

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

The start number called the most often in the published annotations is 15, it was called in 10 of the 17 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Aloki_60, Beted_62, Chidiebere_62, ChisanaKitsune_58, DalanDe_57, FlyingTortilla_62, Gray_62, Hanem_62, Kabocha_63, Lenoshki_62, MintFritos_60, Oogie_62, Pakusa_60, ScarletRaider_61, Schomber_61, 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:

• Argan_68, BarbieDoll_74, Finch_4, GMA6_47, GantcherGoblin_68, Leathea_70, Lewando_74, Phaila_73, Renaldo_78, TrixiePhattel_73, Uzumaki_67, Xenomorph_87, Zeina_73,

Summary by start number:

Start 3:
• Found in 1 of 30 (3.3%) of genes in pham
• Manual Annotations of this start: 1 of 17
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Finch_4 (singleton),

Start 11:
• Found in 1 of 30 (3.3%) of genes in pham
• Manual Annotations of this start: 1 of 17
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Xenomorph_87 (AM),

Start 15:
• Found in 17 of 30 (56.7%) of genes in pham
• Manual Annotations of this start: 10 of 17
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Aloki_60 (DQ), Beted_62 (DQ), Chidiebere_62 (DQ), ChisanaKitsune_58 (DQ), DalanDe_57 (DQ), FlyingTortilla_62 (DQ), Gray_62 (DQ), Hanem_62 (DQ), Kabocha_63 (DQ), Lenoshki_62 (DQ), MintFritos_60 (DQ), Oogie_62 (DQ), Pakusa_60 (DQ), ScarletRaider_61 (DQ), Schomber_61 (DQ), Twin_60 (DQ), UBSmoodge_64 (DQ),

Start 18:
• Found in 11 of 30 (36.7%) of genes in pham
• Manual Annotations of this start: 5 of 17
• Called 90.9% of time when present
• Phage (with cluster) where this start called: Argan_68 (AU6), BarbieDoll_74 (AU6), GantcherGoblin_68 (AU6), Leathea_70 (AU6), Lewando_74 (AU6), Phaila_73 (AU6), Renaldo_78 (AU6), TrixiePhattel_73 (AU6), Uzumaki_67 (AU6), Zeina_73 (AU6),

Start 21:
• Found in 1 of 30 (3.3%) 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: singleton, AU6, AM, DQ,

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

Info for manual annotations of cluster AU6:
•Start number 18 was manually annotated 5 times for cluster AU6.

Info for manual annotations of cluster DQ:

•Start number 15 was manually annotated 10 times for cluster DQ.

Gene Information:

Gene: Aloki_60 Start: 50472, Stop: 50846, Start Num: 15
Candidate Starts for Aloki_60:
(1, 50211), (8, 50439), (Start: 15 @50472 has 10 MA's), (31, 50598), (33, 50622), (39, 50679), (40, 50682), (48, 50769), (54, 50814), (56, 50823), (57, 50832), (58, 50838),

Gene: Argan_68 Start: 43685, Stop: 44131, Start Num: 18
Candidate Starts for Argan_68:
(7, 43640), (Start: 18 @43685 has 5 MA's), (24, 43736), (25, 43739), (33, 43823), (43, 43916), (53, 43997), (54, 44012), (60, 44069),

Gene: BarbieDoll_74 Start: 45295, Stop: 45735, Start Num: 18
Candidate Starts for BarbieDoll_74:
(5, 45211), (6, 45220), (12, 45265), (Start: 18 @45295 has 5 MA's), (19, 45301), (22, 45325), (25, 45349), (37, 45469), (39, 45484), (46, 45556), (51, 45592), (53, 45604), (54, 45619), (61, 45730),

Gene: Beted_62 Start: 52167, Stop: 52541, Start Num: 15
Candidate Starts for Beted_62:
(Start: 15 @52167 has 10 MA's), (33, 52317), (39, 52374), (40, 52377), (48, 52464), (54, 52509), (56, 52518), (57, 52527), (58, 52533),

Gene: Chidiebere_62 Start: 50472, Stop: 50846, Start Num: 15
Candidate Starts for Chidiebere_62:
(Start: 15 @50472 has 10 MA's), (31, 50598), (33, 50622), (39, 50679), (40, 50682), (48, 50769), (54, 50814), (56, 50823), (57, 50832), (58, 50838),

Gene: ChisanaKitsune_58 Start: 49266, Stop: 49640, Start Num: 15
Candidate Starts for ChisanaKitsune_58:
(1, 49005), (8, 49233), (Start: 15 @49266 has 10 MA's), (31, 49392), (33, 49416), (39, 49473), (40, 49476), (48, 49563), (54, 49608), (56, 49617), (57, 49626), (58, 49632),

Gene: DalanDe_57 Start: 53394, Stop: 53774, Start Num: 15
Candidate Starts for DalanDe_57:
(8, 53364), (Start: 15 @53394 has 10 MA's), (20, 53421), (25, 53463), (31, 53520), (35, 53550), (40, 53598), (43, 53634), (50, 53694), (53, 53715), (54, 53730),

Gene: Finch_4 Start: 2539, Stop: 3000, Start Num: 3
Candidate Starts for Finch_4:
(Start: 3 @2539 has 1 MA's), (4, 2551), (16, 2635), (22, 2674), (27, 2707), (29, 2737), (31, 2755), (33, 2779), (39, 2830), (47, 2905), (54, 2965),

Gene: FlyingTortilla_62 Start: 54094, Stop: 54468, Start Num: 15
Candidate Starts for FlyingTortilla_62:
(8, 54061), (Start: 15 @54094 has 10 MA's), (27, 54172), (31, 54220), (32, 54235), (33, 54244), (40, 54304), (42, 54328), (51, 54409), (54, 54436), (56, 54445), (57, 54454), (58, 54460),

Gene: GMA6_47 Start: 41896, Stop: 42207, Start Num: 21
Candidate Starts for GMA6_47:

(2, 41644), (17, 41863), (21, 41896), (30, 41971), (32, 41998), (44, 42112), (48, 42154), (49, 42157),

Gene: GantcherGoblin_68 Start: 43638, Stop: 44078, Start Num: 18
Candidate Starts for GantcherGoblin_68:
(6, 43563), (12, 43608), (13, 43614), (Start: 18 @43638 has 5 MA's), (19, 43644), (25, 43692), (26, 43698), (33, 43776), (41, 43839), (60, 44028),

Gene: Gray_62 Start: 50473, Stop: 50847, Start Num: 15
Candidate Starts for Gray_62:
(1, 50212), (8, 50440), (Start: 15 @50473 has 10 MA's), (31, 50599), (33, 50623), (39, 50680), (40, 50683), (48, 50770), (54, 50815), (56, 50824), (57, 50833), (58, 50839),

Gene: Hanem_62 Start: 50472, Stop: 50846, Start Num: 15
Candidate Starts for Hanem_62:
(1, 50211), (8, 50439), (Start: 15 @50472 has 10 MA's), (31, 50598), (33, 50622), (39, 50679), (40, 50682), (48, 50769), (54, 50814), (56, 50823), (57, 50832), (58, 50838),

Gene: Kabocha_63 Start: 51285, Stop: 51659, Start Num: 15
Candidate Starts for Kabocha_63:
(1, 51024), (8, 51252), (Start: 15 @51285 has 10 MA's), (31, 51411), (33, 51435), (39, 51492), (40, 51495), (48, 51582), (54, 51627), (56, 51636), (57, 51645), (58, 51651),

Gene: Leathea_70 Start: 43549, Stop: 43989, Start Num: 18
Candidate Starts for Leathea_70:
(9, 43507), (12, 43516), (Start: 18 @43549 has 5 MA's), (19, 43555), (25, 43603), (37, 43723), (39, 43738), (45, 43792), (46, 43810), (51, 43846), (53, 43858), (60, 43936),

Gene: Lenoshki_62 Start: 52167, Stop: 52541, Start Num: 15
Candidate Starts for Lenoshki_62:
(Start: 15 @52167 has 10 MA's), (33, 52317), (39, 52374), (40, 52377), (48, 52464), (54, 52509), (56, 52518), (57, 52527), (58, 52533),

Gene: Lewando_74 Start: 45512, Stop: 45952, Start Num: 18
Candidate Starts for Lewando_74:
(10, 45476), (14, 45497), (Start: 18 @45512 has 5 MA's), (19, 45518), (23, 45545), (25, 45566), (37, 45686), (39, 45701), (46, 45773), (51, 45809), (53, 45821), (54, 45836),

Gene: MintFritos_60 Start: 50473, Stop: 50847, Start Num: 15
Candidate Starts for MintFritos_60:
(Start: 15 @50473 has 10 MA's), (31, 50599), (33, 50623), (39, 50680), (40, 50683), (48, 50770), (54, 50815), (56, 50824), (57, 50833), (58, 50839),

Gene: Oogie_62 Start: 52193, Stop: 52567, Start Num: 15
Candidate Starts for Oogie_62:
(Start: 15 @52193 has 10 MA's), (33, 52343), (39, 52400), (40, 52403), (48, 52490), (54, 52535), (56, 52544), (57, 52553), (58, 52559),

Gene: Pakusa_60 Start: 50214, Stop: 50588, Start Num: 15
Candidate Starts for Pakusa_60:
(1, 49953), (8, 50181), (Start: 15 @50214 has 10 MA's), (31, 50340), (33, 50364), (39, 50421), (40, 50424), (48, 50511), (54, 50556), (56, 50565), (57, 50574), (58, 50580),

Gene: Phaila_73 Start: 43871, Stop: 44314, Start Num: 18

Candidate Starts for Phaila_73:
(7, 43826), (Start: 18 @43871 has 5 MA's), (23, 43904), (33, 44009), (34, 44012), (36, 44039), (38, 44054), (53, 44180), (54, 44195),

Gene: Renaldo_78 Start: 45733, Stop: 46173, Start Num: 18
Candidate Starts for Renaldo_78:
(6, 45658), (12, 45703), (Start: 18 @45733 has 5 MA's), (19, 45739), (22, 45763), (23, 45766), (25, 45787), (37, 45907), (39, 45922), (46, 45994), (51, 46030), (53, 46042), (54, 46057),

Gene: ScarletRaider_61 Start: 53381, Stop: 53755, Start Num: 15
Candidate Starts for ScarletRaider_61:
(8, 53348), (Start: 15 @53381 has 10 MA's), (27, 53459), (31, 53507), (32, 53522), (33, 53531), (40, 53591), (42, 53615), (51, 53696), (54, 53723), (56, 53732), (57, 53741), (58, 53747),

Gene: Schomber_61 Start: 50222, Stop: 50596, Start Num: 15
Candidate Starts for Schomber_61:
(1, 49961), (8, 50189), (Start: 15 @50222 has 10 MA's), (31, 50348), (33, 50372), (39, 50429), (40, 50432), (48, 50519), (54, 50564), (56, 50573), (57, 50582), (58, 50588),

Gene: TrixiePhattel_73 Start: 44033, Stop: 44473, Start Num: 18
Candidate Starts for TrixiePhattel_73:
(7, 43988), (Start: 18 @44033 has 5 MA's), (24, 44084), (53, 44345), (54, 44360),

Gene: Twin_60 Start: 50472, Stop: 50846, Start Num: 15
Candidate Starts for Twin_60:
(1, 50211), (8, 50439), (Start: 15 @50472 has 10 MA's), (31, 50598), (33, 50622), (39, 50679), (40, 50682), (48, 50769), (54, 50814), (56, 50823), (57, 50832), (58, 50838),

Gene: UBSmoodge_64 Start: 53863, Stop: 54237, Start Num: 15
Candidate Starts for UBSmoodge_64:
(8, 53830), (Start: 15 @53863 has 10 MA's), (31, 53989), (32, 54004), (33, 54013), (40, 54073), (51, 54178), (54, 54205), (56, 54214), (57, 54223), (58, 54229),

Gene: Uzumaki_67 Start: 43739, Stop: 44179, Start Num: 18
Candidate Starts for Uzumaki_67:
(6, 43664), (12, 43709), (13, 43715), (Start: 18 @43739 has 5 MA's), (19, 43745), (25, 43793), (26, 43799), (33, 43877), (41, 43940), (60, 44129),

Gene: Xenomorph_87 Start: 52772, Stop: 53200, Start Num: 11
Candidate Starts for Xenomorph_87:
(Start: 11 @52772 has 1 MA's), (Start: 18 @52802 has 5 MA's), (22, 52826), (28, 52877), (55, 53123), (59, 53153),

Gene: Zeina_73 Start: 44539, Stop: 44982, Start Num: 18
Candidate Starts for Zeina_73:
(7, 44494), (Start: 18 @44539 has 5 MA's), (22, 44569), (33, 44677), (52, 44845), (53, 44848), (54, 44863),