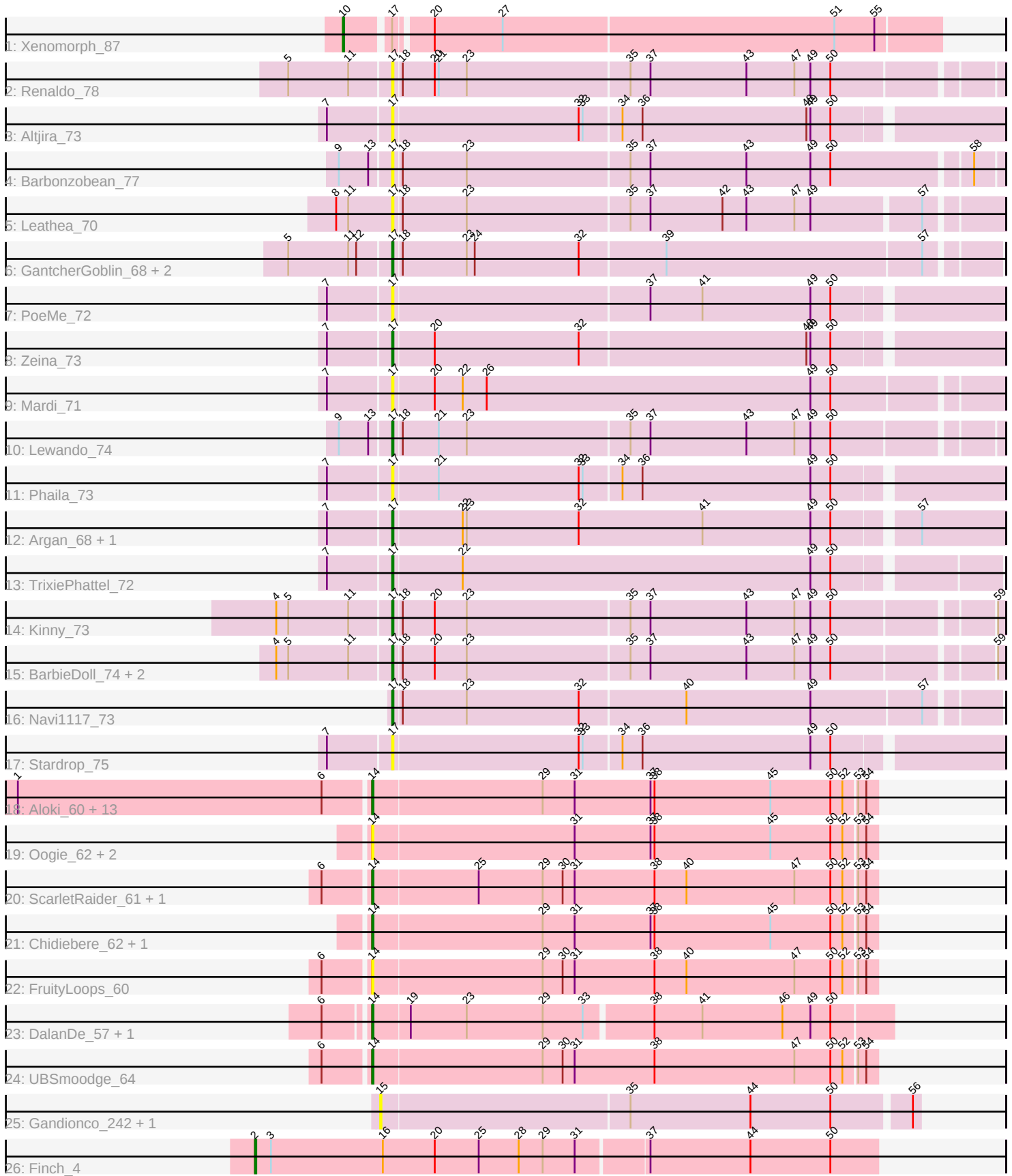


Pham 278299



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 278299 Report

This analysis was run 02/07/26 on database version 634.

Pham number 278299 has 50 members, 27 are drafts.

Phages represented in each track:

- Track 1 : Xenomorph_87
- Track 2 : Renaldo_78
- Track 3 : Altjira_73
- Track 4 : Barbonzobean_77
- Track 5 : Leathea_70
- Track 6 : GantcherGoblin_68, Uzumaki_67, Tenney120_71
- Track 7 : PoeMe_72
- Track 8 : Zeina_73
- Track 9 : Mardi_71
- Track 10 : Lewando_74
- Track 11 : Phaila_73
- Track 12 : Argan_68, KevinMinion_69
- Track 13 : TrixiePhattel_72
- Track 14 : Kinny_73
- Track 15 : BarbieDoll_74, Muglass_72, Biscute_70
- Track 16 : Navi1117_73
- Track 17 : Stardrop_75
- Track 18 : Aloki_60, ChisanaKitsune_58, Gray_62, Argena_60, Toneprano_60, EmoNemo_60, Mikronejon_60, Schomber_61, Amoonguss_60, Pakusa_60, Hanem_62, Farrylious_60, Kabocha_63, Twin_60
- Track 19 : Oogie_62, Beted_62, Lenoshki_62
- Track 20 : ScarletRaider_61, FlyingTortilla_62
- Track 21 : Chidiebere_62, MintFritos_60
- Track 22 : FruityLoops_60
- Track 23 : DalanDe_57, Thales_56
- Track 24 : UBSmoodge_64
- Track 25 : Gandionco_242, Marianna39_242
- Track 26 : 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 17, it was called in 11 of the 23 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Altjira_73, Argan_68, BarbieDoll_74, Barbonzobean_77, Biscute_70, GantcherGoblin_68, KevinMinion_69, Kinny_73, Leathe_70, Lewando_74, Mardi_71, Muglass_72, Navi1117_73, Phaila_73, PoeMe_72, Renaldo_78, Stardrop_75, Tenney120_71, TrixiePhattel_72, Uzumaki_67, Zeina_73,

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

- Xenomorph_87,

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

- Alok_60, Amoonguss_60, Argana_60, Beted_62, Chidiebere_62, ChisanaKitsune_58, DalanDe_57, EmoNemo_60, Farrylous_60, Finch_4, FlyingTortilla_62, FruityLoops_60, Gandionco_242, Gray_62, Hanem_62, Kabocha_63, Lenoshki_62, Marianna39_242, Mikronejon_60, MintFritos_60, Oogie_62, Pakusa_60, ScarletRaider_61, Schomber_61, Thales_56, Toneprano_60, Twin_60, UBSmoodge_64,

Summary by start number:

Start 2:

- Found in 1 of 50 (2.0%) of genes in pham
- Manual Annotations of this start: 1 of 23
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Finch_4 (singleton),

Start 10:

- Found in 1 of 50 (2.0%) of genes in pham
- Manual Annotations of this start: 1 of 23
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Xenomorph_87 (AM),

Start 14:

- Found in 25 of 50 (50.0%) of genes in pham
- Manual Annotations of this start: 10 of 23
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Alok_60 (DQ), Amoonguss_60 (DQ), Argana_60 (DQ), Beted_62 (DQ), Chidiebere_62 (DQ), ChisanaKitsune_58 (DQ), DalanDe_57 (DQ), EmoNemo_60 (DQ), Farrylous_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_62 (DQ), Pakusa_60 (DQ), ScarletRaider_61 (DQ), Schomber_61 (DQ), Thales_56 (DQ), Toneprano_60 (DQ), Twin_60 (DQ), UBSmoodge_64 (DQ),

Start 15:

- Found in 2 of 50 (4.0%) 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 17:

- Found in 22 of 50 (44.0%) of genes in pham
- Manual Annotations of this start: 11 of 23

- Called 95.5% of time when present
- Phage (with cluster) where this start called: Altjira_73 (AU6), Argan_68 (AU6), BarbieDoll_74 (AU6), Barbonzobean_77 (AU6), Biscute_70 (AU6), GantcherGoblin_68 (AU6), KevinMinion_69 (AU6), Kinny_73 (AU6), Leathea_70 (AU6), Lewando_74 (AU6), Mardi_71 (AU6), Muglass_72 (AU6), Navi1117_73 (AU6), Phaila_73 (AU6), PoeMe_72 (AU6), Renaldo_78 (AU6), Stardrop_75 (AU6), Tenney120_71 (AU6), TrixiePhattel_72 (AU6), Uzumaki_67 (AU6), Zeina_73 (AU6),

Summary by clusters:

There are 5 clusters represented in this pham: FK, singleton, AU6, AM, DQ,

Info for manual annotations of cluster AM:

- Start number 10 was manually annotated 1 time for cluster AM.

Info for manual annotations of cluster AU6:

- Start number 17 was manually annotated 11 times for cluster AU6.

Info for manual annotations of cluster DQ:

- Start number 14 was manually annotated 10 times for cluster DQ.

Gene Information:

Gene: Alok_60 Start: 50472, Stop: 50846, Start Num: 14

Candidate Starts for Alok_60:

(1, 50211), (6, 50439), (Start: 14 @50472 has 10 MA's), (29, 50598), (31, 50622), (37, 50679), (38, 50682), (45, 50769), (50, 50814), (52, 50823), (53, 50832), (54, 50838),

Gene: Altjira_73 Start: 44965, Stop: 45408, Start Num: 17

Candidate Starts for Altjira_73:

(7, 44920), (Start: 17 @44965 has 11 MA's), (32, 45103), (33, 45106), (34, 45133), (36, 45148), (48, 45271), (49, 45274), (50, 45289),

Gene: Amoonguss_60 Start: 50475, Stop: 50849, Start Num: 14

Candidate Starts for Amoonguss_60:

(1, 50214), (6, 50442), (Start: 14 @50475 has 10 MA's), (29, 50601), (31, 50625), (37, 50682), (38, 50685), (45, 50772), (50, 50817), (52, 50826), (53, 50835), (54, 50841),

Gene: Argan_68 Start: 43685, Stop: 44131, Start Num: 17

Candidate Starts for Argan_68:

(7, 43640), (Start: 17 @43685 has 11 MA's), (22, 43736), (23, 43739), (32, 43823), (41, 43916), (49, 43997), (50, 44012), (57, 44069),

Gene: Argena_60 Start: 50487, Stop: 50861, Start Num: 14

Candidate Starts for Argena_60:

(1, 50226), (6, 50454), (Start: 14 @50487 has 10 MA's), (29, 50613), (31, 50637), (37, 50694), (38, 50697), (45, 50784), (50, 50829), (52, 50838), (53, 50847), (54, 50853),

Gene: BarbieDoll_74 Start: 45295, Stop: 45735, Start Num: 17

Candidate Starts for BarbieDoll_74:

(4, 45211), (5, 45220), (11, 45265), (Start: 17 @45295 has 11 MA's), (18, 45301), (20, 45325), (23, 45349), (35, 45469), (37, 45484), (43, 45556), (47, 45592), (49, 45604), (50, 45619), (59, 45730),

Gene: Barbonzobean_77 Start: 45688, Stop: 46131, Start Num: 17

Candidate Starts for Barbonzobean_77:

(9, 45652), (13, 45673), (Start: 17 @45688 has 11 MA's), (18, 45694), (23, 45742), (35, 45862), (37, 45877), (43, 45949), (49, 45997), (50, 46012), (58, 46111),

Gene: Beted_62 Start: 52167, Stop: 52541, Start Num: 14

Candidate Starts for Beted_62:

(Start: 14 @52167 has 10 MA's), (31, 52317), (37, 52374), (38, 52377), (45, 52464), (50, 52509), (52, 52518), (53, 52527), (54, 52533),

Gene: Biscute_70 Start: 44947, Stop: 45387, Start Num: 17

Candidate Starts for Biscute_70:

(4, 44863), (5, 44872), (11, 44917), (Start: 17 @44947 has 11 MA's), (18, 44953), (20, 44977), (23, 45001), (35, 45121), (37, 45136), (43, 45208), (47, 45244), (49, 45256), (50, 45271), (59, 45382),

Gene: Chidiebere_62 Start: 50472, Stop: 50846, Start Num: 14

Candidate Starts for Chidiebere_62:

(Start: 14 @50472 has 10 MA's), (29, 50598), (31, 50622), (37, 50679), (38, 50682), (45, 50769), (50, 50814), (52, 50823), (53, 50832), (54, 50838),

Gene: ChisanaKitsune_58 Start: 49266, Stop: 49640, Start Num: 14

Candidate Starts for ChisanaKitsune_58:

(1, 49005), (6, 49233), (Start: 14 @49266 has 10 MA's), (29, 49392), (31, 49416), (37, 49473), (38, 49476), (45, 49563), (50, 49608), (52, 49617), (53, 49626), (54, 49632),

Gene: DalanDe_57 Start: 53394, Stop: 53774, Start Num: 14

Candidate Starts for DalanDe_57:

(6, 53364), (Start: 14 @53394 has 10 MA's), (19, 53421), (23, 53463), (29, 53520), (33, 53550), (38, 53598), (41, 53634), (46, 53694), (49, 53715), (50, 53730),

Gene: EmoNemo_60 Start: 50472, Stop: 50846, Start Num: 14

Candidate Starts for EmoNemo_60:

(1, 50211), (6, 50439), (Start: 14 @50472 has 10 MA's), (29, 50598), (31, 50622), (37, 50679), (38, 50682), (45, 50769), (50, 50814), (52, 50823), (53, 50832), (54, 50838),

Gene: Farrylious_60 Start: 50251, Stop: 50625, Start Num: 14

Candidate Starts for Farrylious_60:

(1, 49990), (6, 50218), (Start: 14 @50251 has 10 MA's), (29, 50377), (31, 50401), (37, 50458), (38, 50461), (45, 50548), (50, 50593), (52, 50602), (53, 50611), (54, 50617),

Gene: Finch_4 Start: 2539, Stop: 3000, Start Num: 2

Candidate Starts for Finch_4:

(Start: 2 @2539 has 1 MA's), (3, 2551), (16, 2635), (20, 2674), (25, 2707), (28, 2737), (29, 2755), (31, 2779), (37, 2830), (44, 2905), (50, 2965),

Gene: FlyingTortilla_62 Start: 54094, Stop: 54468, Start Num: 14

Candidate Starts for FlyingTortilla_62:

(6, 54061), (Start: 14 @54094 has 10 MA's), (25, 54172), (29, 54220), (30, 54235), (31, 54244), (38, 54304), (40, 54328), (47, 54409), (50, 54436), (52, 54445), (53, 54454), (54, 54460),

Gene: FruityLoops_60 Start: 53399, Stop: 53773, Start Num: 14

Candidate Starts for FruityLoops_60:

(6, 53366), (Start: 14 @53399 has 10 MA's), (29, 53525), (30, 53540), (31, 53549), (38, 53609), (40, 53633), (47, 53714), (50, 53741), (52, 53750), (53, 53759), (54, 53765),

Gene: Gandionco_242 Start: 107900, Stop: 108292, Start Num: 15

Candidate Starts for Gandionco_242:

(15, 107900), (35, 108083), (44, 108173), (50, 108233), (56, 108287),

Gene: GantcherGoblin_68 Start: 43638, Stop: 44078, Start Num: 17

Candidate Starts for GantcherGoblin_68:

(5, 43563), (11, 43608), (12, 43614), (Start: 17 @43638 has 11 MA's), (18, 43644), (23, 43692), (24, 43698), (32, 43776), (39, 43839), (57, 44028),

Gene: Gray_62 Start: 50473, Stop: 50847, Start Num: 14

Candidate Starts for Gray_62:

(1, 50212), (6, 50440), (Start: 14 @50473 has 10 MA's), (29, 50599), (31, 50623), (37, 50680), (38, 50683), (45, 50770), (50, 50815), (52, 50824), (53, 50833), (54, 50839),

Gene: Hanem_62 Start: 50472, Stop: 50846, Start Num: 14

Candidate Starts for Hanem_62:

(1, 50211), (6, 50439), (Start: 14 @50472 has 10 MA's), (29, 50598), (31, 50622), (37, 50679), (38, 50682), (45, 50769), (50, 50814), (52, 50823), (53, 50832), (54, 50838),

Gene: Kabocha_63 Start: 51285, Stop: 51659, Start Num: 14

Candidate Starts for Kabocha_63:

(1, 51024), (6, 51252), (Start: 14 @51285 has 10 MA's), (29, 51411), (31, 51435), (37, 51492), (38, 51495), (45, 51582), (50, 51627), (52, 51636), (53, 51645), (54, 51651),

Gene: KevinMinion_69 Start: 44636, Stop: 45082, Start Num: 17

Candidate Starts for KevinMinion_69:

(7, 44591), (Start: 17 @44636 has 11 MA's), (22, 44687), (23, 44690), (32, 44774), (41, 44867), (49, 44948), (50, 44963), (57, 45020),

Gene: Kinny_73 Start: 45775, Stop: 46215, Start Num: 17

Candidate Starts for Kinny_73:

(4, 45691), (5, 45700), (11, 45745), (Start: 17 @45775 has 11 MA's), (18, 45781), (20, 45805), (23, 45829), (35, 45949), (37, 45964), (43, 46036), (47, 46072), (49, 46084), (50, 46099), (59, 46210),

Gene: Leathea_70 Start: 43549, Stop: 43989, Start Num: 17

Candidate Starts for Leathea_70:

(8, 43507), (11, 43516), (Start: 17 @43549 has 11 MA's), (18, 43555), (23, 43603), (35, 43723), (37, 43738), (42, 43792), (43, 43810), (47, 43846), (49, 43858), (57, 43936),

Gene: Lenoshki_62 Start: 52167, Stop: 52541, Start Num: 14

Candidate Starts for Lenoshki_62:

(Start: 14 @52167 has 10 MA's), (31, 52317), (37, 52374), (38, 52377), (45, 52464), (50, 52509), (52, 52518), (53, 52527), (54, 52533),

Gene: Lewando_74 Start: 45512, Stop: 45952, Start Num: 17

Candidate Starts for Lewando_74:

(9, 45476), (13, 45497), (Start: 17 @45512 has 11 MA's), (18, 45518), (21, 45545), (23, 45566), (35, 45686), (37, 45701), (43, 45773), (47, 45809), (49, 45821), (50, 45836),

Gene: Mardi_71 Start: 44206, Stop: 44652, Start Num: 17

Candidate Starts for Mardi_71:

(7, 44161), (Start: 17 @44206 has 11 MA's), (20, 44236), (22, 44257), (26, 44275), (49, 44518), (50, 44533),

Gene: Marianna39_242 Start: 108503, Stop: 108895, Start Num: 15

Candidate Starts for Marianna39_242:

(15, 108503), (35, 108686), (44, 108776), (50, 108836), (56, 108890),

Gene: Mikronejon_60 Start: 50472, Stop: 50846, Start Num: 14

Candidate Starts for Mikronejon_60:

(1, 50211), (6, 50439), (Start: 14 @50472 has 10 MA's), (29, 50598), (31, 50622), (37, 50679), (38, 50682), (45, 50769), (50, 50814), (52, 50823), (53, 50832), (54, 50838),

Gene: MintFritos_60 Start: 50473, Stop: 50847, Start Num: 14

Candidate Starts for MintFritos_60:

(Start: 14 @50473 has 10 MA's), (29, 50599), (31, 50623), (37, 50680), (38, 50683), (45, 50770), (50, 50815), (52, 50824), (53, 50833), (54, 50839),

Gene: Muglass_72 Start: 44851, Stop: 45291, Start Num: 17

Candidate Starts for Muglass_72:

(4, 44767), (5, 44776), (11, 44821), (Start: 17 @44851 has 11 MA's), (18, 44857), (20, 44881), (23, 44905), (35, 45025), (37, 45040), (43, 45112), (47, 45148), (49, 45160), (50, 45175), (59, 45286),

Gene: Navi1117_73 Start: 44718, Stop: 45158, Start Num: 17

Candidate Starts for Navi1117_73:

(Start: 17 @44718 has 11 MA's), (18, 44724), (23, 44772), (32, 44856), (40, 44934), (49, 45027), (57, 45108),

Gene: Oogie_62 Start: 52193, Stop: 52567, Start Num: 14

Candidate Starts for Oogie_62:

(Start: 14 @52193 has 10 MA's), (31, 52343), (37, 52400), (38, 52403), (45, 52490), (50, 52535), (52, 52544), (53, 52553), (54, 52559),

Gene: Pakusa_60 Start: 50214, Stop: 50588, Start Num: 14

Candidate Starts for Pakusa_60:

(1, 49953), (6, 50181), (Start: 14 @50214 has 10 MA's), (29, 50340), (31, 50364), (37, 50421), (38, 50424), (45, 50511), (50, 50556), (52, 50565), (53, 50574), (54, 50580),

Gene: Phaila_73 Start: 43871, Stop: 44314, Start Num: 17

Candidate Starts for Phaila_73:

(7, 43826), (Start: 17 @43871 has 11 MA's), (21, 43904), (32, 44009), (33, 44012), (34, 44039), (36, 44054), (49, 44180), (50, 44195),

Gene: PoeMe_72 Start: 44359, Stop: 44802, Start Num: 17

Candidate Starts for PoeMe_72:

(7, 44314), (Start: 17 @44359 has 11 MA's), (37, 44548), (41, 44587), (49, 44668), (50, 44683),

Gene: Renaldo_78 Start: 45733, Stop: 46173, Start Num: 17

Candidate Starts for Renaldo_78:

(5, 45658), (11, 45703), (Start: 17 @45733 has 11 MA's), (18, 45739), (20, 45763), (21, 45766), (23, 45787), (35, 45907), (37, 45922), (43, 45994), (47, 46030), (49, 46042), (50, 46057),

Gene: ScarletRaider_61 Start: 53381, Stop: 53755, Start Num: 14

Candidate Starts for ScarletRaider_61:

(6, 53348), (Start: 14 @53381 has 10 MA's), (25, 53459), (29, 53507), (30, 53522), (31, 53531), (38, 53591), (40, 53615), (47, 53696), (50, 53723), (52, 53732), (53, 53741), (54, 53747),

Gene: Schomber_61 Start: 50222, Stop: 50596, Start Num: 14

Candidate Starts for Schomber_61:

(1, 49961), (6, 50189), (Start: 14 @50222 has 10 MA's), (29, 50348), (31, 50372), (37, 50429), (38, 50432), (45, 50519), (50, 50564), (52, 50573), (53, 50582), (54, 50588),

Gene: Stardrop_75 Start: 44461, Stop: 44904, Start Num: 17

Candidate Starts for Stardrop_75:

(7, 44416), (Start: 17 @44461 has 11 MA's), (32, 44599), (33, 44602), (34, 44629), (36, 44644), (49, 44770), (50, 44785),

Gene: Tenney120_71 Start: 44298, Stop: 44738, Start Num: 17

Candidate Starts for Tenney120_71:

(5, 44223), (11, 44268), (12, 44274), (Start: 17 @44298 has 11 MA's), (18, 44304), (23, 44352), (24, 44358), (32, 44436), (39, 44499), (57, 44688),

Gene: Thales_56 Start: 52309, Stop: 52689, Start Num: 14

Candidate Starts for Thales_56:

(6, 52279), (Start: 14 @52309 has 10 MA's), (19, 52336), (23, 52378), (29, 52435), (33, 52465), (38, 52513), (41, 52549), (46, 52609), (49, 52630), (50, 52645),

Gene: Toneprano_60 Start: 50487, Stop: 50861, Start Num: 14

Candidate Starts for Toneprano_60:

(1, 50226), (6, 50454), (Start: 14 @50487 has 10 MA's), (29, 50613), (31, 50637), (37, 50694), (38, 50697), (45, 50784), (50, 50829), (52, 50838), (53, 50847), (54, 50853),

Gene: TrixiePhattel_72 Start: 44033, Stop: 44473, Start Num: 17

Candidate Starts for TrixiePhattel_72:

(7, 43988), (Start: 17 @44033 has 11 MA's), (22, 44084), (49, 44345), (50, 44360),

Gene: Twin_60 Start: 50472, Stop: 50846, Start Num: 14

Candidate Starts for Twin_60:

(1, 50211), (6, 50439), (Start: 14 @50472 has 10 MA's), (29, 50598), (31, 50622), (37, 50679), (38, 50682), (45, 50769), (50, 50814), (52, 50823), (53, 50832), (54, 50838),

Gene: UBSmoodge_64 Start: 53863, Stop: 54237, Start Num: 14

Candidate Starts for UBSmoodge_64:

(6, 53830), (Start: 14 @53863 has 10 MA's), (29, 53989), (30, 54004), (31, 54013), (38, 54073), (47, 54178), (50, 54205), (52, 54214), (53, 54223), (54, 54229),

Gene: Uzumaki_67 Start: 43739, Stop: 44179, Start Num: 17

Candidate Starts for Uzumaki_67:

(5, 43664), (11, 43709), (12, 43715), (Start: 17 @43739 has 11 MA's), (18, 43745), (23, 43793), (24, 43799), (32, 43877), (39, 43940), (57, 44129),

Gene: Xenomorph_87 Start: 52772, Stop: 53200, Start Num: 10

Candidate Starts for Xenomorph_87:

(Start: 10 @52772 has 1 MA's), (Start: 17 @52802 has 11 MA's), (20, 52826), (27, 52877), (51, 53123), (55, 53153),

Gene: Zeina_73 Start: 44539, Stop: 44982, Start Num: 17

Candidate Starts for Zeina_73:

(7, 44494), (Start: 17 @44539 has 11 MA's), (20, 44569), (32, 44677), (48, 44845), (49, 44848), (50, 44863),