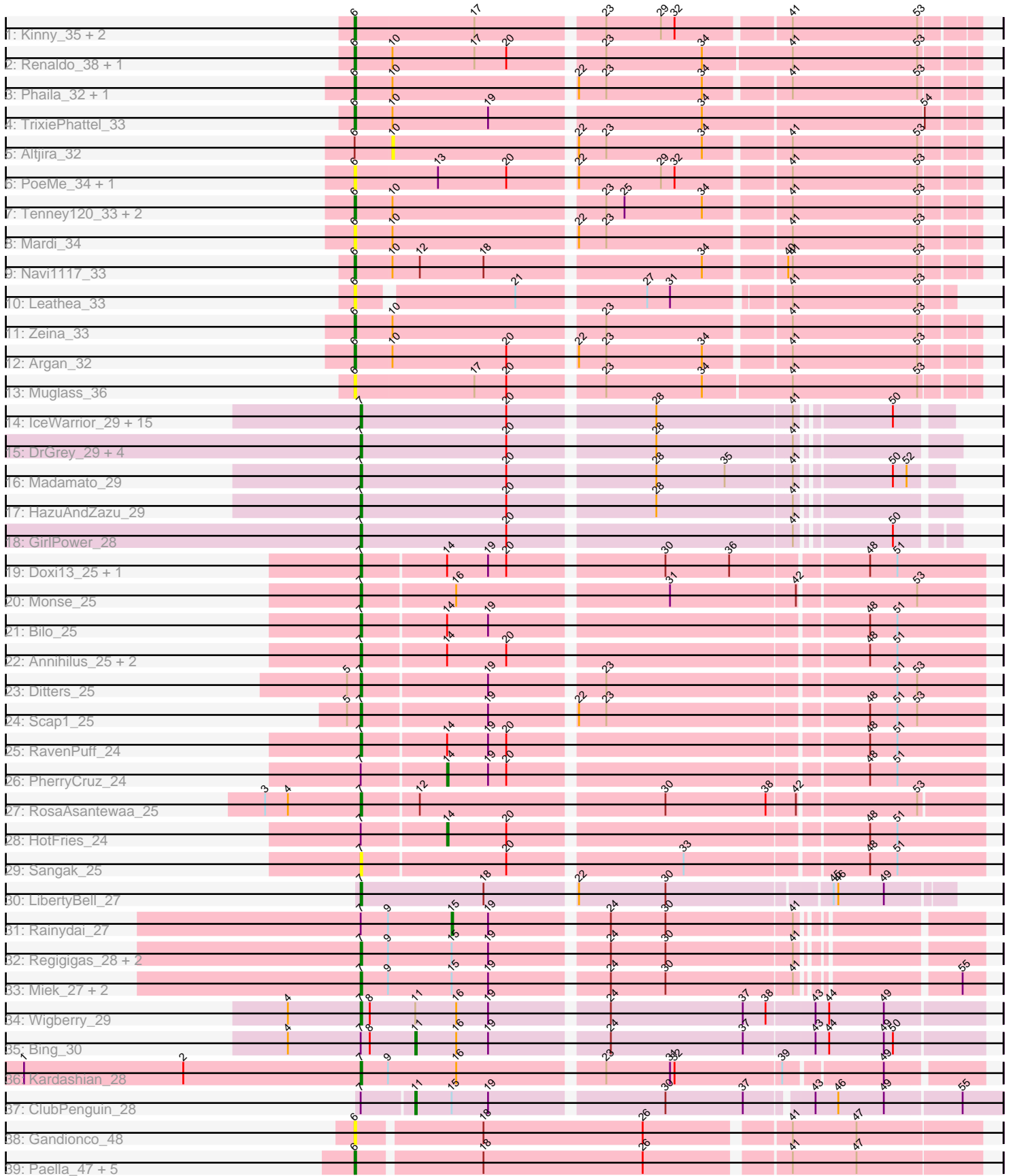


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 296506 Report

This analysis was run 04/25/26 on database version 644.

Pham number 296506 has 77 members, 16 are drafts.

Phages represented in each track:

- Track 1 : Kinny\_35, Barbonzobean\_38, Lewando\_36
- Track 2 : Renaldo\_38, Biscute\_34
- Track 3 : Phaila\_32, GantcherGoblin\_32
- Track 4 : TrixiePhattel\_33
- Track 5 : Altjira\_32
- Track 6 : PoeMe\_34, Stardrop\_34
- Track 7 : Tenney120\_33, KevinMinion\_33, Uzumaki\_33
- Track 8 : Mardi\_34
- Track 9 : Navi1117\_33
- Track 10 : Leathea\_33
- Track 11 : Zeina\_33
- Track 12 : Argan\_32
- Track 13 : Muglass\_36
- Track 14 : IceWarrior\_29, OlympicHelado\_29, Hoshi\_29, Indigenous\_29, FidgetOrca\_29, CherryBlossom\_29, TaidaOne\_29, TieDye\_28, Rima\_29, Esketit\_29, TonyStarch\_29, Spectropatronm\_29, Meibysrarus\_29, Maya\_29, Namu\_29, Jaylociraptor\_29
- Track 15 : DrGrey\_29, Espio\_29, FrodoSwaggins\_29, Popy\_29, Soshi\_29
- Track 16 : Madamato\_29
- Track 17 : HazuAndZazu\_29
- Track 18 : GirlPower\_28
- Track 19 : Doxi13\_25, GoblinVoyage\_25
- Track 20 : Monse\_25
- Track 21 : Bilo\_25
- Track 22 : Annihilus\_25, Moozy\_25, SheRa\_25
- Track 23 : Ditters\_25
- Track 24 : Scap1\_25
- Track 25 : RavenPuff\_24
- Track 26 : PherryCruz\_24
- Track 27 : RosaAsantewaa\_25
- Track 28 : HotFries\_24
- Track 29 : Sangak\_25
- Track 30 : LibertyBell\_27
- Track 31 : Rainydai\_27
- Track 32 : Regigigas\_28, CricKo\_27, Thiqqums\_27
- Track 33 : Miek\_27, FromIndy\_28, SendItCS\_26
- Track 34 : Wigberry\_29

- Track 35 : Bing\_30
- Track 36 : Kardashian\_28
- Track 37 : ClubPenguin\_28
- Track 38 : Gandionco\_48
- Track 39 : Paella\_47, Marianna39\_48, JeNeSaisPas\_46, Elver\_47, Kureo\_48, Qui\_47

### **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 42 of the 61 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Annihilus\_25, Bilo\_25, CherryBlossom\_29, CricKo\_27, Ditters\_25, Doxi13\_25, DrGrey\_29, Esketit\_29, Espio\_29, FidgetOrca\_29, FrodoSwaggins\_29, FromIndy\_28, GirlPower\_28, GoblinVoyage\_25, HazuAndZazu\_29, Hoshi\_29, IceWarrior\_29, Indigenous\_29, Jaylociraptor\_29, Kardashian\_28, LibertyBell\_27, Madamoto\_29, Maya\_29, Meibysrarus\_29, Miek\_27, Monse\_25, Moozy\_25, Namo\_29, OlympicHelado\_29, Popy\_29, RavenPuff\_24, Regigigas\_28, Rima\_29, RosaAsantewaa\_25, Sangak\_25, Scap1\_25, SendItCS\_26, SheRa\_25, Soshi\_29, Spectropatronm\_29, TaidaOne\_29, Thiqqums\_27, TieDye\_28, TonyStarch\_29, Wigberry\_29,

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

- Bing\_30, ClubPenguin\_28, HotFries\_24, PherryCruz\_24, Rainydai\_27,

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

- Altjira\_32, Argan\_32, Barbonzobean\_38, Biscute\_34, Elver\_47, Gandionco\_48, GantcherGoblin\_32, JeNeSaisPas\_46, KevinMinion\_33, Kinny\_35, Kureo\_48, Leathea\_33, Lewando\_36, Mardi\_34, Marianna39\_48, Muglass\_36, Navi1117\_33, Paella\_47, Phaila\_32, PoeMe\_34, Qui\_47, Renaldo\_38, Stardrop\_34, Tenney120\_33, TrixiePhattel\_33, Uzumaki\_33, Zeina\_33,

### **Summary by start number:**

Start 6:

- Found in 27 of 77 ( 35.1% ) of genes in pham
- Manual Annotations of this start: 14 of 61
- Called 96.3% of time when present
- Phage (with cluster) where this start called: Argan\_32 (AU6), Barbonzobean\_38 (AU6), Biscute\_34 (AU6), Elver\_47 (FK), Gandionco\_48 (FK), GantcherGoblin\_32 (AU6), JeNeSaisPas\_46 (FK), KevinMinion\_33 (AU6), Kinny\_35 (AU6), Kureo\_48 (FK), Leathea\_33 (AU6), Lewando\_36 (AU6), Mardi\_34 (AU6), Marianna39\_48 (FK), Muglass\_36 (AU6), Navi1117\_33 (AU6), Paella\_47 (FK), Phaila\_32 (AU6), PoeMe\_34 (AU6), Qui\_47 (FK), Renaldo\_38 (AU6), Stardrop\_34 (AU6), Tenney120\_33 (AU6), TrixiePhattel\_33 (AU6), Uzumaki\_33 (AU6), Zeina\_33 (AU6),

Start 7:

- Found in 50 of 77 ( 64.9% ) of genes in pham
- Manual Annotations of this start: 42 of 61

- Called 90.0% of time when present
- Phage (with cluster) where this start called: Annihilus\_25 (BI2), Bilo\_25 (BI2), CherryBlossom\_29 (BI1), CricKo\_27 (BI4), Ditters\_25 (BI2), Doxi13\_25 (BI2), DrGrey\_29 (BI1), Esketit\_29 (BI1), Espio\_29 (BI1), FidgetOrca\_29 (BI1), FrodoSwaggins\_29 (BI1), FromIndy\_28 (BI4), GirlPower\_28 (BI1), GoblinVoyage\_25 (BI2), HazuAndZazu\_29 (BI1), Hoshi\_29 (BI1), IceWarrior\_29 (BI1), Indigenous\_29 (BI1), Jaylociraptor\_29 (BI1), Kardashian\_28 (BI6), LibertyBell\_27 (BI3), Madamato\_29 (BI1), Maya\_29 (BI1), Meibysrarus\_29 (BI1), Miek\_27 (BI4), Monse\_25 (BI2), Moozy\_25 (BI2), Namu\_29 (BI1), OlympicHelado\_29 (BI1), Popy\_29 (BI1), RavenPuff\_24 (BI2), Regigigas\_28 (BI4), Rima\_29 (BI1), RosaAsantewaa\_25 (BI2), Sangak\_25 (BI2), Scap1\_25 (BI2), SendItCS\_26 (BI4), SheRa\_25 (BI2), Soshi\_29 (BI1), Spectropatronm\_29 (BI1), TaidaOne\_29 (BI1), Thiqqums\_27 (BI4), TieDye\_28 (BI1), TonyStarch\_29 (BI1), Wigberry\_29 (BI5),

Start 10:

- Found in 13 of 77 ( 16.9% ) of genes in pham
- No Manual Annotations of this start.
- Called 7.7% of time when present
- Phage (with cluster) where this start called: Altjira\_32 (AU6),

Start 11:

- Found in 3 of 77 ( 3.9% ) of genes in pham
- Manual Annotations of this start: 2 of 61
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Bing\_30 (BI5), ClubPenguin\_28 (BI7),

Start 14:

- Found in 9 of 77 ( 11.7% ) of genes in pham
- Manual Annotations of this start: 2 of 61
- Called 22.2% of time when present
- Phage (with cluster) where this start called: HotFries\_24 (BI2), PherryCruz\_24 (BI2),

Start 15:

- Found in 8 of 77 ( 10.4% ) of genes in pham
- Manual Annotations of this start: 1 of 61
- Called 12.5% of time when present
- Phage (with cluster) where this start called: Rainydai\_27 (BI4),

### **Summary by clusters:**

There are 9 clusters represented in this pham: BI5, AU6, BI6, BI7, BI4, FK, BI2, BI3, BI1,

Info for manual annotations of cluster AU6:

- Start number 6 was manually annotated 11 times for cluster AU6.

Info for manual annotations of cluster BI1:

- Start number 7 was manually annotated 24 times for cluster BI1.

Info for manual annotations of cluster BI2:

- Start number 7 was manually annotated 11 times for cluster BI2.
- Start number 14 was manually annotated 2 times for cluster BI2.

Info for manual annotations of cluster BI3:

- Start number 7 was manually annotated 1 time for cluster BI3.

Info for manual annotations of cluster BI4:

- Start number 7 was manually annotated 4 times for cluster BI4.
- Start number 15 was manually annotated 1 time for cluster BI4.

Info for manual annotations of cluster BI5:

- Start number 7 was manually annotated 1 time for cluster BI5.
- Start number 11 was manually annotated 1 time for cluster BI5.

Info for manual annotations of cluster BI6:

- Start number 7 was manually annotated 1 time for cluster BI6.

Info for manual annotations of cluster BI7:

- Start number 11 was manually annotated 1 time for cluster BI7.

Info for manual annotations of cluster FK:

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

### ***Gene Information:***

Gene: Altjira\_32 Start: 27735, Stop: 28097, Start Num: 10

Candidate Starts for Altjira\_32:

(Start: 6 @27711 has 14 MA's), (10, 27735), (22, 27849), (23, 27867), (34, 27930), (41, 27981), (53, 28062),

Gene: Annihilus\_25 Start: 22331, Stop: 22720, Start Num: 7

Candidate Starts for Annihilus\_25:

(Start: 7 @22331 has 42 MA's), (Start: 14 @22385 has 2 MA's), (20, 22424), (48, 22646), (51, 22664),

Gene: Argan\_32 Start: 26978, Stop: 27364, Start Num: 6

Candidate Starts for Argan\_32:

(Start: 6 @26978 has 14 MA's), (10, 27002), (20, 27077), (22, 27116), (23, 27134), (34, 27197), (41, 27248), (53, 27329),

Gene: Barbonzobean\_38 Start: 28548, Stop: 28934, Start Num: 6

Candidate Starts for Barbonzobean\_38:

(Start: 6 @28548 has 14 MA's), (17, 28626), (23, 28704), (29, 28740), (32, 28749), (41, 28818), (53, 28899),

Gene: Bilo\_25 Start: 22822, Stop: 23211, Start Num: 7

Candidate Starts for Bilo\_25:

(Start: 7 @22822 has 42 MA's), (Start: 14 @22876 has 2 MA's), (19, 22903), (48, 23137), (51, 23155),

Gene: Bing\_30 Start: 25162, Stop: 25521, Start Num: 11

Candidate Starts for Bing\_30:

(4, 25078), (Start: 7 @25126 has 42 MA's), (8, 25132), (Start: 11 @25162 has 2 MA's), (16, 25189), (19, 25210), (24, 25282), (37, 25369), (43, 25414), (44, 25423), (49, 25459), (50, 25465),

Gene: Biscute\_34 Start: 28599, Stop: 28991, Start Num: 6

Candidate Starts for Biscute\_34:

(Start: 6 @28599 has 14 MA's), (10, 28623), (17, 28677), (20, 28698), (23, 28755), (34, 28818), (41, 28875), (53, 28956),

Gene: CherryBlossom\_29 Start: 25276, Stop: 25635, Start Num: 7

Candidate Starts for CherryBlossom\_29:

(Start: 7 @25276 has 42 MA's), (20, 25372), (28, 25462), (41, 25549), (50, 25603),

Gene: ClubPenguin\_28 Start: 24936, Stop: 25301, Start Num: 11

Candidate Starts for ClubPenguin\_28:

(Start: 7 @24903 has 42 MA's), (Start: 11 @24936 has 2 MA's), (Start: 15 @24960 has 1 MA's), (19, 24984), (30, 25092), (37, 25143), (43, 25182), (46, 25197), (49, 25227), (55, 25275),

Gene: CricKo\_27 Start: 24163, Stop: 24540, Start Num: 7

Candidate Starts for CricKo\_27:

(Start: 7 @24163 has 42 MA's), (9, 24181), (Start: 15 @24223 has 1 MA's), (19, 24247), (24, 24319), (30, 24355), (41, 24436),

Gene: Ditters\_25 Start: 22781, Stop: 23170, Start Num: 7

Candidate Starts for Ditters\_25:

(5, 22772), (Start: 7 @22781 has 42 MA's), (19, 22862), (23, 22931), (51, 23114), (53, 23126),

Gene: Doxi13\_25 Start: 22302, Stop: 22691, Start Num: 7

Candidate Starts for Doxi13\_25:

(Start: 7 @22302 has 42 MA's), (Start: 14 @22356 has 2 MA's), (19, 22383), (20, 22395), (30, 22491), (36, 22533), (48, 22617), (51, 22635),

Gene: DrGrey\_29 Start: 25776, Stop: 26141, Start Num: 7

Candidate Starts for DrGrey\_29:

(Start: 7 @25776 has 42 MA's), (20, 25872), (28, 25962), (41, 26049),

Gene: Elver\_47 Start: 37243, Stop: 37635, Start Num: 6

Candidate Starts for Elver\_47:

(Start: 6 @37243 has 14 MA's), (18, 37321), (26, 37426), (41, 37513), (47, 37555),

Gene: Esketit\_29 Start: 25259, Stop: 25618, Start Num: 7

Candidate Starts for Esketit\_29:

(Start: 7 @25259 has 42 MA's), (20, 25355), (28, 25445), (41, 25532), (50, 25586),

Gene: Espio\_29 Start: 25777, Stop: 26142, Start Num: 7

Candidate Starts for Espio\_29:

(Start: 7 @25777 has 42 MA's), (20, 25873), (28, 25963), (41, 26050),

Gene: FidgetOrca\_29 Start: 25265, Stop: 25624, Start Num: 7

Candidate Starts for FidgetOrca\_29:

(Start: 7 @25265 has 42 MA's), (20, 25361), (28, 25451), (41, 25538), (50, 25592),

Gene: FrodoSwaggins\_29 Start: 25776, Stop: 26141, Start Num: 7

Candidate Starts for FrodoSwaggins\_29:

(Start: 7 @25776 has 42 MA's), (20, 25872), (28, 25962), (41, 26049),

Gene: FromIndy\_28 Start: 24151, Stop: 24528, Start Num: 7

Candidate Starts for FromIndy\_28:

(Start: 7 @24151 has 42 MA's), (9, 24169), (Start: 15 @24211 has 1 MA's), (19, 24235), (24, 24307), (30, 24343), (41, 24424), (55, 24514),

Gene: Gandionco\_48 Start: 37766, Stop: 38158, Start Num: 6

Candidate Starts for Gandionco\_48:

(Start: 6 @37766 has 14 MA's), (18, 37844), (26, 37949), (41, 38036), (47, 38078),

Gene: GantcherGoblin\_32 Start: 27017, Stop: 27403, Start Num: 6

Candidate Starts for GantcherGoblin\_32:

(Start: 6 @27017 has 14 MA's), (10, 27041), (22, 27155), (23, 27173), (34, 27236), (41, 27287), (53, 27368),

Gene: GirlPower\_28 Start: 26747, Stop: 27109, Start Num: 7

Candidate Starts for GirlPower\_28:

(Start: 7 @26747 has 42 MA's), (20, 26843), (41, 27020), (50, 27074),

Gene: GoblinVoyage\_25 Start: 22302, Stop: 22691, Start Num: 7

Candidate Starts for GoblinVoyage\_25:

(Start: 7 @22302 has 42 MA's), (Start: 14 @22356 has 2 MA's), (19, 22383), (20, 22395), (30, 22491), (36, 22533), (48, 22617), (51, 22635),

Gene: HazuAndZazu\_29 Start: 25777, Stop: 26142, Start Num: 7

Candidate Starts for HazuAndZazu\_29:

(Start: 7 @25777 has 42 MA's), (20, 25873), (28, 25963), (41, 26050),

Gene: Hoshi\_29 Start: 25259, Stop: 25618, Start Num: 7

Candidate Starts for Hoshi\_29:

(Start: 7 @25259 has 42 MA's), (20, 25355), (28, 25445), (41, 25532), (50, 25586),

Gene: HotFries\_24 Start: 22355, Stop: 22690, Start Num: 14

Candidate Starts for HotFries\_24:

(Start: 7 @22301 has 42 MA's), (Start: 14 @22355 has 2 MA's), (20, 22394), (48, 22616), (51, 22634),

Gene: IceWarrior\_29 Start: 25259, Stop: 25618, Start Num: 7

Candidate Starts for IceWarrior\_29:

(Start: 7 @25259 has 42 MA's), (20, 25355), (28, 25445), (41, 25532), (50, 25586),

Gene: Indigenous\_29 Start: 25259, Stop: 25618, Start Num: 7

Candidate Starts for Indigenous\_29:

(Start: 7 @25259 has 42 MA's), (20, 25355), (28, 25445), (41, 25532), (50, 25586),

Gene: Jaylociraptor\_29 Start: 25259, Stop: 25618, Start Num: 7

Candidate Starts for Jaylociraptor\_29:

(Start: 7 @25259 has 42 MA's), (20, 25355), (28, 25445), (41, 25532), (50, 25586),

Gene: JeNeSaisPas\_46 Start: 37778, Stop: 38170, Start Num: 6

Candidate Starts for JeNeSaisPas\_46:

(Start: 6 @37778 has 14 MA's), (18, 37856), (26, 37961), (41, 38048), (47, 38090),

Gene: Kardashian\_28 Start: 25209, Stop: 25595, Start Num: 7

Candidate Starts for Kardashian\_28:

(1, 24987), (2, 25092), (Start: 7 @25209 has 42 MA's), (9, 25227), (16, 25272), (23, 25362), (31, 25404), (32, 25407), (39, 25476), (49, 25536),

Gene: KevinMinion\_33 Start: 28111, Stop: 28497, Start Num: 6  
Candidate Starts for KevinMinion\_33:  
(Start: 6 @28111 has 14 MA's), (10, 28135), (23, 28267), (25, 28279), (34, 28330), (41, 28381), (53, 28462),

Gene: Kinny\_35 Start: 28866, Stop: 29252, Start Num: 6  
Candidate Starts for Kinny\_35:  
(Start: 6 @28866 has 14 MA's), (17, 28944), (23, 29022), (29, 29058), (32, 29067), (41, 29136), (53, 29217),

Gene: Kureo\_48 Start: 36588, Stop: 36980, Start Num: 6  
Candidate Starts for Kureo\_48:  
(Start: 6 @36588 has 14 MA's), (18, 36666), (26, 36771), (41, 36858), (47, 36900),

Gene: Leathea\_33 Start: 26912, Stop: 27271, Start Num: 6  
Candidate Starts for Leathea\_33:  
(Start: 6 @26912 has 14 MA's), (21, 27008), (27, 27086), (31, 27101), (41, 27170), (53, 27251),

Gene: Lewando\_36 Start: 28935, Stop: 29321, Start Num: 6  
Candidate Starts for Lewando\_36:  
(Start: 6 @28935 has 14 MA's), (17, 29013), (23, 29091), (29, 29127), (32, 29136), (41, 29205), (53, 29286),

Gene: LibertyBell\_27 Start: 24107, Stop: 24475, Start Num: 7  
Candidate Starts for LibertyBell\_27:  
(Start: 7 @24107 has 42 MA's), (18, 24188), (22, 24242), (30, 24299), (45, 24401), (46, 24404), (49, 24434),

Gene: Madamoto\_29 Start: 25237, Stop: 25596, Start Num: 7  
Candidate Starts for Madamoto\_29:  
(Start: 7 @25237 has 42 MA's), (20, 25333), (28, 25423), (35, 25468), (41, 25510), (50, 25564), (52, 25573),

Gene: Mardi\_34 Start: 27545, Stop: 27931, Start Num: 6  
Candidate Starts for Mardi\_34:  
(Start: 6 @27545 has 14 MA's), (10, 27569), (22, 27683), (23, 27701), (41, 27815), (53, 27896),

Gene: Marianna39\_48 Start: 37765, Stop: 38157, Start Num: 6  
Candidate Starts for Marianna39\_48:  
(Start: 6 @37765 has 14 MA's), (18, 37843), (26, 37948), (41, 38035), (47, 38077),

Gene: Maya\_29 Start: 25273, Stop: 25632, Start Num: 7  
Candidate Starts for Maya\_29:  
(Start: 7 @25273 has 42 MA's), (20, 25369), (28, 25459), (41, 25546), (50, 25600),

Gene: Meibysrarus\_29 Start: 25259, Stop: 25618, Start Num: 7  
Candidate Starts for Meibysrarus\_29:  
(Start: 7 @25259 has 42 MA's), (20, 25355), (28, 25445), (41, 25532), (50, 25586),

Gene: Miek\_27 Start: 24163, Stop: 24540, Start Num: 7  
Candidate Starts for Miek\_27:

(Start: 7 @24163 has 42 MA's), (9, 24181), (Start: 15 @24223 has 1 MA's), (19, 24247), (24, 24319), (30, 24355), (41, 24436), (55, 24526),

Gene: Monse\_25 Start: 22333, Stop: 22722, Start Num: 7

Candidate Starts for Monse\_25:

(Start: 7 @22333 has 42 MA's), (16, 22393), (31, 22525), (42, 22606), (53, 22678),

Gene: Moozy\_25 Start: 22318, Stop: 22707, Start Num: 7

Candidate Starts for Moozy\_25:

(Start: 7 @22318 has 42 MA's), (Start: 14 @22372 has 2 MA's), (20, 22411), (48, 22633), (51, 22651),

Gene: Muglass\_36 Start: 28503, Stop: 28895, Start Num: 6

Candidate Starts for Muglass\_36:

(Start: 6 @28503 has 14 MA's), (17, 28581), (20, 28602), (23, 28659), (34, 28722), (41, 28779), (53, 28860),

Gene: Namo\_29 Start: 25265, Stop: 25624, Start Num: 7

Candidate Starts for Namo\_29:

(Start: 7 @25265 has 42 MA's), (20, 25361), (28, 25451), (41, 25538), (50, 25592),

Gene: Navi1117\_33 Start: 27244, Stop: 27630, Start Num: 6

Candidate Starts for Navi1117\_33:

(Start: 6 @27244 has 14 MA's), (10, 27268), (12, 27286), (18, 27328), (34, 27463), (40, 27511), (41, 27514), (53, 27595),

Gene: OlympicHelado\_29 Start: 25265, Stop: 25624, Start Num: 7

Candidate Starts for OlympicHelado\_29:

(Start: 7 @25265 has 42 MA's), (20, 25361), (28, 25451), (41, 25538), (50, 25592),

Gene: Paella\_47 Start: 37245, Stop: 37637, Start Num: 6

Candidate Starts for Paella\_47:

(Start: 6 @37245 has 14 MA's), (18, 37323), (26, 37428), (41, 37515), (47, 37557),

Gene: Phaila\_32 Start: 26595, Stop: 26981, Start Num: 6

Candidate Starts for Phaila\_32:

(Start: 6 @26595 has 14 MA's), (10, 26619), (22, 26733), (23, 26751), (34, 26814), (41, 26865), (53, 26946),

Gene: PherryCruz\_24 Start: 22357, Stop: 22692, Start Num: 14

Candidate Starts for PherryCruz\_24:

(Start: 7 @22303 has 42 MA's), (Start: 14 @22357 has 2 MA's), (19, 22384), (20, 22396), (48, 22618), (51, 22636),

Gene: PoeMe\_34 Start: 27873, Stop: 28259, Start Num: 6

Candidate Starts for PoeMe\_34:

(Start: 6 @27873 has 14 MA's), (13, 27927), (20, 27972), (22, 28011), (29, 28065), (32, 28074), (41, 28143), (53, 28224),

Gene: Popy\_29 Start: 25776, Stop: 26141, Start Num: 7

Candidate Starts for Popy\_29:

(Start: 7 @25776 has 42 MA's), (20, 25872), (28, 25962), (41, 26049),

Gene: Qui\_47 Start: 37245, Stop: 37637, Start Num: 6

Candidate Starts for Qui\_47:

(Start: 6 @37245 has 14 MA's), (18, 37323), (26, 37428), (41, 37515), (47, 37557),

Gene: Rainydai\_27 Start: 24223, Stop: 24540, Start Num: 15

Candidate Starts for Rainydai\_27:

(Start: 7 @24163 has 42 MA's), (9, 24181), (Start: 15 @24223 has 1 MA's), (19, 24247), (24, 24319), (30, 24355), (41, 24436),

Gene: RavenPuff\_24 Start: 22303, Stop: 22692, Start Num: 7

Candidate Starts for RavenPuff\_24:

(Start: 7 @22303 has 42 MA's), (Start: 14 @22357 has 2 MA's), (19, 22384), (20, 22396), (48, 22618), (51, 22636),

Gene: Regigigas\_28 Start: 24163, Stop: 24540, Start Num: 7

Candidate Starts for Regigigas\_28:

(Start: 7 @24163 has 42 MA's), (9, 24181), (Start: 15 @24223 has 1 MA's), (19, 24247), (24, 24319), (30, 24355), (41, 24436),

Gene: Renaldo\_38 Start: 28944, Stop: 29336, Start Num: 6

Candidate Starts for Renaldo\_38:

(Start: 6 @28944 has 14 MA's), (10, 28968), (17, 29022), (20, 29043), (23, 29100), (34, 29163), (41, 29220), (53, 29301),

Gene: Rima\_29 Start: 25265, Stop: 25624, Start Num: 7

Candidate Starts for Rima\_29:

(Start: 7 @25265 has 42 MA's), (20, 25361), (28, 25451), (41, 25538), (50, 25592),

Gene: RosaAsantewaa\_25 Start: 22174, Stop: 22560, Start Num: 7

Candidate Starts for RosaAsantewaa\_25:

(3, 22111), (4, 22126), (Start: 7 @22174 has 42 MA's), (12, 22210), (30, 22363), (38, 22429), (42, 22447), (53, 22519),

Gene: Sangak\_25 Start: 22303, Stop: 22692, Start Num: 7

Candidate Starts for Sangak\_25:

(Start: 7 @22303 has 42 MA's), (20, 22396), (33, 22504), (48, 22618), (51, 22636),

Gene: Scap1\_25 Start: 22251, Stop: 22640, Start Num: 7

Candidate Starts for Scap1\_25:

(5, 22242), (Start: 7 @22251 has 42 MA's), (19, 22332), (22, 22383), (23, 22401), (48, 22566), (51, 22584), (53, 22596),

Gene: SendItCS\_26 Start: 24163, Stop: 24540, Start Num: 7

Candidate Starts for SendItCS\_26:

(Start: 7 @24163 has 42 MA's), (9, 24181), (Start: 15 @24223 has 1 MA's), (19, 24247), (24, 24319), (30, 24355), (41, 24436), (55, 24526),

Gene: SheRa\_25 Start: 22302, Stop: 22691, Start Num: 7

Candidate Starts for SheRa\_25:

(Start: 7 @22302 has 42 MA's), (Start: 14 @22356 has 2 MA's), (20, 22395), (48, 22617), (51, 22635),

Gene: Soshi\_29 Start: 25782, Stop: 26147, Start Num: 7

Candidate Starts for Soshi\_29:

(Start: 7 @25782 has 42 MA's), (20, 25878), (28, 25968), (41, 26055),

Gene: Spectropatronm\_29 Start: 25259, Stop: 25618, Start Num: 7

Candidate Starts for Spectropatronm\_29:

(Start: 7 @25259 has 42 MA's), (20, 25355), (28, 25445), (41, 25532), (50, 25586),

Gene: Stardrop\_34 Start: 27569, Stop: 27955, Start Num: 6

Candidate Starts for Stardrop\_34:

(Start: 6 @27569 has 14 MA's), (13, 27623), (20, 27668), (22, 27707), (29, 27761), (32, 27770), (41, 27839), (53, 27920),

Gene: TaidaOne\_29 Start: 25907, Stop: 26266, Start Num: 7

Candidate Starts for TaidaOne\_29:

(Start: 7 @25907 has 42 MA's), (20, 26003), (28, 26093), (41, 26180), (50, 26234),

Gene: Tenney120\_33 Start: 27306, Stop: 27692, Start Num: 6

Candidate Starts for Tenney120\_33:

(Start: 6 @27306 has 14 MA's), (10, 27330), (23, 27462), (25, 27474), (34, 27525), (41, 27576), (53, 27657),

Gene: Thiqqums\_27 Start: 24163, Stop: 24540, Start Num: 7

Candidate Starts for Thiqqums\_27:

(Start: 7 @24163 has 42 MA's), (9, 24181), (Start: 15 @24223 has 1 MA's), (19, 24247), (24, 24319), (30, 24355), (41, 24436),

Gene: TieDye\_28 Start: 24951, Stop: 25310, Start Num: 7

Candidate Starts for TieDye\_28:

(Start: 7 @24951 has 42 MA's), (20, 25047), (28, 25137), (41, 25224), (50, 25278),

Gene: TonyStarch\_29 Start: 25265, Stop: 25624, Start Num: 7

Candidate Starts for TonyStarch\_29:

(Start: 7 @25265 has 42 MA's), (20, 25361), (28, 25451), (41, 25538), (50, 25592),

Gene: TrixiePhattel\_33 Start: 27141, Stop: 27533, Start Num: 6

Candidate Starts for TrixiePhattel\_33:

(Start: 6 @27141 has 14 MA's), (10, 27165), (19, 27228), (34, 27360), (54, 27501),

Gene: Uzumaki\_33 Start: 27836, Stop: 28222, Start Num: 6

Candidate Starts for Uzumaki\_33:

(Start: 6 @27836 has 14 MA's), (10, 27860), (23, 27992), (25, 28004), (34, 28055), (41, 28106), (53, 28187),

Gene: Wigberry\_29 Start: 24678, Stop: 25073, Start Num: 7

Candidate Starts for Wigberry\_29:

(4, 24630), (Start: 7 @24678 has 42 MA's), (8, 24684), (Start: 11 @24714 has 2 MA's), (16, 24741), (19, 24762), (24, 24834), (37, 24921), (38, 24936), (43, 24966), (44, 24975), (49, 25011),

Gene: Zeina\_33 Start: 27217, Stop: 27603, Start Num: 6

Candidate Starts for Zeina\_33:

(Start: 6 @27217 has 14 MA's), (10, 27241), (23, 27373), (41, 27487), (53, 27568),