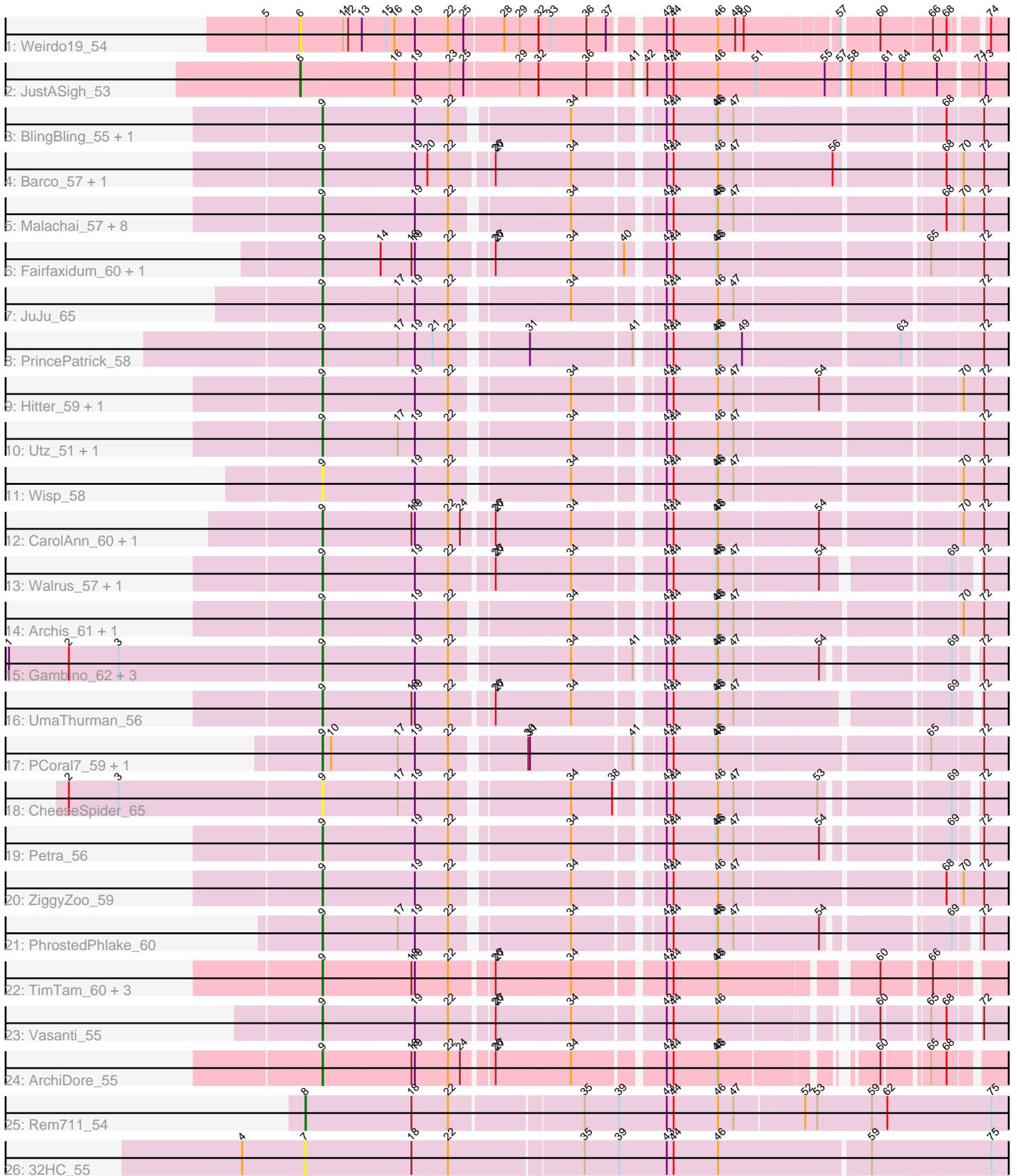


Pham 283905



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 283905 Report

This analysis was run 02/23/26 on database version 636.

Pham number 283905 has 49 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Weirdo19_54
- Track 2 : JustASigh_53
- Track 3 : BlingBling_55, Melba_57
- Track 4 : Barco_57, Zilla_58
- Track 5 : Malachai_57, Begonia_57, MintFen_59, Guacamole_56, Delian_62, Jalammah_62, JasperJr_56, CaptainKirk2_59, Zarbodnamra_58
- Track 6 : Fairfaxidum_60, William_61
- Track 7 : JuJu_65
- Track 8 : PrincePatrick_58
- Track 9 : Hitter_59, Fenry_57
- Track 10 : Utz_51, Obliviate_55
- Track 11 : Wisp_58
- Track 12 : CarolAnn_60, Blino_61
- Track 13 : Walrus_57, Pipp_61
- Track 14 : Archis_61, Samba_58
- Track 15 : Gambino_62, Azula_60, Blueberry_59, MissRona_60
- Track 16 : UmaThurman_56
- Track 17 : PCoral7_59, Toast_59
- Track 18 : CheeseSpider_65
- Track 19 : Petra_56
- Track 20 : ZiggyZoo_59
- Track 21 : PhrostedPhlake_60
- Track 22 : TimTam_60, Eviarto_60, Nymphadora_60, BatStarr_59
- Track 23 : Vasanti_55
- Track 24 : ArchiDore_55
- Track 25 : Rem711_54
- Track 26 : 32HC_55

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 42 of the 44 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- ArchiDore_55, Archis_61, Azula_60, Barco_57, BatStarr_59, Begonia_57, BlingBling_55, Blino_61, Blueberry_59, CaptainKirk2_59, CarolAnn_60, CheeseSpider_65, Delian_62, Eviarto_60, Fairfaxidum_60, Fenry_57, Gambino_62, Guacamole_56, Hitter_59, Jalammah_62, JasperJr_56, JuJu_65, Malachai_57, Melba_57, MintFen_59, MissRona_60, Nymphadora_60, Obliviate_55, PCoral7_59, Petra_56, PhrostedPhlake_60, Pipp_61, PrincePatrick_58, Samba_58, TimTam_60, Toast_59, UmaThurman_56, Utz_51, Vasanti_55, Walrus_57, William_61, Wisp_58, Zarbodnamra_58, ZiggyZoo_59, Zilla_58,

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

-

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

- 32HC_55, JustASigh_53, Rem711_54, Weirido19_54,

Summary by start number:

Start 6:

- Found in 2 of 49 (4.1%) of genes in pham
- Manual Annotations of this start: 1 of 44
- Called 100.0% of time when present
- Phage (with cluster) where this start called: JustASigh_53 (AH), Weirido19_54 (AH),

Start 7:

- Found in 1 of 49 (2.0%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: 32HC_55 (Z),

Start 8:

- Found in 1 of 49 (2.0%) of genes in pham
- Manual Annotations of this start: 1 of 44
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Rem711_54 (Z),

Start 9:

- Found in 45 of 49 (91.8%) of genes in pham
- Manual Annotations of this start: 42 of 44
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ArchiDore_55 (DW), Archis_61 (CV), Azula_60 (CV), Barco_57 (CV), BatStarr_59 (CZ1), Begonia_57 (CV), BlingBling_55 (CV), Blino_61 (CV), Blueberry_59 (CV), CaptainKirk2_59 (CV), CarolAnn_60 (CV), CheeseSpider_65 (CV), Delian_62 (CV), Eviarto_60 (CZ1), Fairfaxidum_60 (CV), Fenry_57 (CV), Gambino_62 (CV), Guacamole_56 (CV), Hitter_59 (CV), Jalammah_62 (CV), JasperJr_56 (CV), JuJu_65 (CV), Malachai_57 (CV), Melba_57 (CV), MintFen_59 (CV), MissRona_60 (CV), Nymphadora_60 (CZ1), Obliviate_55 (CV), PCoral7_59 (CV), Petra_56 (CV), PhrostedPhlake_60 (CV), Pipp_61 (CV), PrincePatrick_58 (CV), Samba_58 (CV), TimTam_60 (CZ1), Toast_59 (CV), UmaThurman_56 (CV), Utz_51 (CV), Vasanti_55 (CZ2), Walrus_57 (CV), William_61 (CV), Wisp_58 (CV), Zarbodnamra_58 (CV), ZiggyZoo_59 (CV), Zilla_58 (CV),

Summary by clusters:

There are 6 clusters represented in this pham: CZ2, AH, CZ1, DW, Z, CV,

Info for manual annotations of cluster AH:

- Start number 6 was manually annotated 1 time for cluster AH.

Info for manual annotations of cluster CV:

- Start number 9 was manually annotated 36 times for cluster CV.

Info for manual annotations of cluster CZ1:

- Start number 9 was manually annotated 4 times for cluster CZ1.

Info for manual annotations of cluster CZ2:

- Start number 9 was manually annotated 1 time for cluster CZ2.

Info for manual annotations of cluster DW:

- Start number 9 was manually annotated 1 time for cluster DW.

Info for manual annotations of cluster Z:

- Start number 8 was manually annotated 1 time for cluster Z.

Gene Information:

Gene: 32HC_55 Start: 37634, Stop: 38950, Start Num: 7

Candidate Starts for 32HC_55:

(4, 37526), (7, 37634), (18, 37820), (22, 37883), (35, 38108), (39, 38168), (43, 38252), (44, 38264), (46, 38342), (59, 38597), (75, 38801),

Gene: ArchiDore_55 Start: 41018, Stop: 42052, Start Num: 9

Candidate Starts for ArchiDore_55:

(Start: 9 @41018 has 42 MA's), (18, 41168), (19, 41174), (22, 41231), (24, 41252), (26, 41297), (27, 41300), (34, 41426), (43, 41564), (44, 41576), (45, 41651), (46, 41654), (60, 41849), (65, 41915), (68, 41942),

Gene: Archis_61 Start: 38380, Stop: 39471, Start Num: 9

Candidate Starts for Archis_61:

(Start: 9 @38380 has 42 MA's), (19, 38536), (22, 38593), (34, 38776), (43, 38905), (44, 38917), (45, 38992), (46, 38995), (47, 39022), (70, 39373), (72, 39409),

Gene: Azula_60 Start: 40662, Stop: 41723, Start Num: 9

Candidate Starts for Azula_60:

(1, 40119), (2, 40224), (3, 40311), (Start: 9 @40662 has 42 MA's), (19, 40818), (22, 40875), (34, 41058), (41, 41154), (43, 41187), (44, 41199), (45, 41274), (46, 41277), (47, 41304), (54, 41439), (69, 41628), (72, 41661),

Gene: Barco_57 Start: 37936, Stop: 39048, Start Num: 9

Candidate Starts for Barco_57:

(Start: 9 @37936 has 42 MA's), (19, 38092), (20, 38113), (22, 38149), (26, 38215), (27, 38218), (34, 38344), (43, 38482), (44, 38494), (46, 38572), (47, 38599), (56, 38755), (68, 38926), (70, 38950), (72, 38986),

Gene: BatStarr_59 Start: 42217, Stop: 43296, Start Num: 9

Candidate Starts for BatStarr_59:

(Start: 9 @42217 has 42 MA's), (18, 42367), (19, 42373), (22, 42430), (26, 42496), (27, 42499), (34, 42625), (43, 42763), (44, 42775), (45, 42850), (46, 42853), (60, 43084), (66, 43162),

Gene: Begonia_57 Start: 40175, Stop: 41266, Start Num: 9

Candidate Starts for Begonia_57:

(Start: 9 @40175 has 42 MA's), (19, 40331), (22, 40388), (34, 40571), (43, 40700), (44, 40712), (45, 40787), (46, 40790), (47, 40817), (68, 41144), (70, 41168), (72, 41204),

Gene: BlingBling_55 Start: 38393, Stop: 39484, Start Num: 9

Candidate Starts for BlingBling_55:

(Start: 9 @38393 has 42 MA's), (19, 38549), (22, 38606), (34, 38789), (43, 38918), (44, 38930), (45, 39005), (46, 39008), (47, 39035), (68, 39362), (72, 39422),

Gene: Blino_61 Start: 43357, Stop: 44466, Start Num: 9

Candidate Starts for Blino_61:

(Start: 9 @43357 has 42 MA's), (18, 43507), (19, 43513), (22, 43570), (24, 43591), (26, 43636), (27, 43639), (34, 43765), (43, 43903), (44, 43915), (45, 43990), (46, 43993), (54, 44152), (70, 44368), (72, 44404),

Gene: Blueberry_59 Start: 40662, Stop: 41723, Start Num: 9

Candidate Starts for Blueberry_59:

(1, 40119), (2, 40224), (3, 40311), (Start: 9 @40662 has 42 MA's), (19, 40818), (22, 40875), (34, 41058), (41, 41154), (43, 41187), (44, 41199), (45, 41274), (46, 41277), (47, 41304), (54, 41439), (69, 41628), (72, 41661),

Gene: CaptainKirk2_59 Start: 38175, Stop: 39266, Start Num: 9

Candidate Starts for CaptainKirk2_59:

(Start: 9 @38175 has 42 MA's), (19, 38331), (22, 38388), (34, 38571), (43, 38700), (44, 38712), (45, 38787), (46, 38790), (47, 38817), (68, 39144), (70, 39168), (72, 39204),

Gene: CarolAnn_60 Start: 43356, Stop: 44465, Start Num: 9

Candidate Starts for CarolAnn_60:

(Start: 9 @43356 has 42 MA's), (18, 43506), (19, 43512), (22, 43569), (24, 43590), (26, 43635), (27, 43638), (34, 43764), (43, 43902), (44, 43914), (45, 43989), (46, 43992), (54, 44151), (70, 44367), (72, 44403),

Gene: CheeseSpider_65 Start: 39442, Stop: 40503, Start Num: 9

Candidate Starts for CheeseSpider_65:

(2, 39004), (3, 39091), (Start: 9 @39442 has 42 MA's), (17, 39568), (19, 39598), (22, 39655), (34, 39838), (38, 39907), (43, 39967), (44, 39979), (46, 40057), (47, 40084), (53, 40216), (69, 40408), (72, 40441),

Gene: Delian_62 Start: 38173, Stop: 39264, Start Num: 9

Candidate Starts for Delian_62:

(Start: 9 @38173 has 42 MA's), (19, 38329), (22, 38386), (34, 38569), (43, 38698), (44, 38710), (45, 38785), (46, 38788), (47, 38815), (68, 39142), (70, 39166), (72, 39202),

Gene: Eviarto_60 Start: 42192, Stop: 43271, Start Num: 9

Candidate Starts for Eviarto_60:

(Start: 9 @42192 has 42 MA's), (18, 42342), (19, 42348), (22, 42405), (26, 42471), (27, 42474), (34, 42600), (43, 42738), (44, 42750), (45, 42825), (46, 42828), (60, 43059), (66, 43137),

Gene: Fairfaxidum_60 Start: 40525, Stop: 41622, Start Num: 9

Candidate Starts for Fairfaxidum_60:

(Start: 9 @40525 has 42 MA's), (14, 40621), (18, 40675), (19, 40681), (22, 40738), (26, 40804), (27, 40807), (34, 40933), (40, 41014), (43, 41071), (44, 41083), (45, 41158), (46, 41161), (65, 41488), (72, 41575),

Gene: Fenry_57 Start: 39683, Stop: 40777, Start Num: 9

Candidate Starts for Fenry_57:

(Start: 9 @39683 has 42 MA's), (19, 39839), (22, 39896), (34, 40079), (43, 40208), (44, 40220), (46, 40298), (47, 40325), (54, 40460), (70, 40679), (72, 40715),

Gene: Gambino_62 Start: 40662, Stop: 41723, Start Num: 9

Candidate Starts for Gambino_62:

(1, 40119), (2, 40224), (3, 40311), (Start: 9 @40662 has 42 MA's), (19, 40818), (22, 40875), (34, 41058), (41, 41154), (43, 41187), (44, 41199), (45, 41274), (46, 41277), (47, 41304), (54, 41439), (69, 41628), (72, 41661),

Gene: Guacamole_56 Start: 38402, Stop: 39493, Start Num: 9

Candidate Starts for Guacamole_56:

(Start: 9 @38402 has 42 MA's), (19, 38558), (22, 38615), (34, 38798), (43, 38927), (44, 38939), (45, 39014), (46, 39017), (47, 39044), (68, 39371), (70, 39395), (72, 39431),

Gene: Hitter_59 Start: 37978, Stop: 39072, Start Num: 9

Candidate Starts for Hitter_59:

(Start: 9 @37978 has 42 MA's), (19, 38134), (22, 38191), (34, 38374), (43, 38503), (44, 38515), (46, 38593), (47, 38620), (54, 38755), (70, 38974), (72, 39010),

Gene: Jalammah_62 Start: 40981, Stop: 42072, Start Num: 9

Candidate Starts for Jalammah_62:

(Start: 9 @40981 has 42 MA's), (19, 41137), (22, 41194), (34, 41377), (43, 41506), (44, 41518), (45, 41593), (46, 41596), (47, 41623), (68, 41950), (70, 41974), (72, 42010),

Gene: JasperJr_56 Start: 38402, Stop: 39493, Start Num: 9

Candidate Starts for JasperJr_56:

(Start: 9 @38402 has 42 MA's), (19, 38558), (22, 38615), (34, 38798), (43, 38927), (44, 38939), (45, 39014), (46, 39017), (47, 39044), (68, 39371), (70, 39395), (72, 39431),

Gene: JuJu_65 Start: 42107, Stop: 43198, Start Num: 9

Candidate Starts for JuJu_65:

(Start: 9 @42107 has 42 MA's), (17, 42233), (19, 42263), (22, 42320), (34, 42503), (43, 42632), (44, 42644), (46, 42722), (47, 42749), (72, 43136),

Gene: JustASigh_53 Start: 37832, Stop: 38998, Start Num: 6

Candidate Starts for JustASigh_53:

(Start: 6 @37832 has 1 MA's), (16, 37988), (19, 38024), (23, 38084), (25, 38108), (29, 38201), (32, 38234), (36, 38318), (41, 38387), (42, 38396), (43, 38429), (44, 38441), (46, 38519), (51, 38585), (55, 38699), (57, 38726), (58, 38735), (61, 38789), (64, 38816), (67, 38873), (71, 38933), (73, 38945),

Gene: Malachai_57 Start: 40175, Stop: 41266, Start Num: 9

Candidate Starts for Malachai_57:

(Start: 9 @40175 has 42 MA's), (19, 40331), (22, 40388), (34, 40571), (43, 40700), (44, 40712), (45, 40787), (46, 40790), (47, 40817), (68, 41144), (70, 41168), (72, 41204),

Gene: Melba_57 Start: 38218, Stop: 39309, Start Num: 9

Candidate Starts for Melba_57:

(Start: 9 @38218 has 42 MA's), (19, 38374), (22, 38431), (34, 38614), (43, 38743), (44, 38755), (45, 38830), (46, 38833), (47, 38860), (68, 39187), (72, 39247),

Gene: MintFen_59 Start: 38789, Stop: 39880, Start Num: 9

Candidate Starts for MintFen_59:

(Start: 9 @38789 has 42 MA's), (19, 38945), (22, 39002), (34, 39185), (43, 39314), (44, 39326), (45, 39401), (46, 39404), (47, 39431), (68, 39758), (70, 39782), (72, 39818),

Gene: MissRona_60 Start: 40663, Stop: 41724, Start Num: 9

Candidate Starts for MissRona_60:

(1, 40120), (2, 40225), (3, 40312), (Start: 9 @40663 has 42 MA's), (19, 40819), (22, 40876), (34, 41059), (41, 41155), (43, 41188), (44, 41200), (45, 41275), (46, 41278), (47, 41305), (54, 41440), (69, 41629), (72, 41662),

Gene: Nymphadora_60 Start: 42216, Stop: 43295, Start Num: 9

Candidate Starts for Nymphadora_60:

(Start: 9 @42216 has 42 MA's), (18, 42366), (19, 42372), (22, 42429), (26, 42495), (27, 42498), (34, 42624), (43, 42762), (44, 42774), (45, 42849), (46, 42852), (60, 43083), (66, 43161),

Gene: Obliviate_55 Start: 36786, Stop: 37877, Start Num: 9

Candidate Starts for Obliviate_55:

(Start: 9 @36786 has 42 MA's), (17, 36912), (19, 36942), (22, 36999), (34, 37182), (43, 37311), (44, 37323), (46, 37401), (47, 37428), (72, 37815),

Gene: PCoral7_59 Start: 39933, Stop: 41009, Start Num: 9

Candidate Starts for PCoral7_59:

(Start: 9 @39933 has 42 MA's), (10, 39948), (17, 40059), (19, 40089), (22, 40146), (30, 40257), (31, 40260), (41, 40425), (43, 40458), (44, 40470), (45, 40545), (46, 40548), (65, 40875), (72, 40962),

Gene: Petra_56 Start: 37438, Stop: 38499, Start Num: 9

Candidate Starts for Petra_56:

(Start: 9 @37438 has 42 MA's), (19, 37594), (22, 37651), (34, 37834), (43, 37963), (44, 37975), (45, 38050), (46, 38053), (47, 38080), (54, 38215), (69, 38404), (72, 38437),

Gene: PhrostedPhlake_60 Start: 38220, Stop: 39281, Start Num: 9

Candidate Starts for PhrostedPhlake_60:

(Start: 9 @38220 has 42 MA's), (17, 38346), (19, 38376), (22, 38433), (34, 38616), (43, 38745), (44, 38757), (45, 38832), (46, 38835), (47, 38862), (54, 38997), (69, 39186), (72, 39219),

Gene: Pipp_61 Start: 39485, Stop: 40570, Start Num: 9

Candidate Starts for Pipp_61:

(Start: 9 @39485 has 42 MA's), (19, 39641), (22, 39698), (26, 39764), (27, 39767), (34, 39893), (43, 40031), (44, 40043), (45, 40118), (46, 40121), (47, 40148), (54, 40286), (69, 40475), (72, 40508),

Gene: PrincePatrick_58 Start: 38282, Stop: 39358, Start Num: 9

Candidate Starts for PrincePatrick_58:

(Start: 9 @38282 has 42 MA's), (17, 38408), (19, 38438), (21, 38468), (22, 38495), (31, 38609), (41, 38774), (43, 38807), (44, 38819), (45, 38894), (46, 38897), (49, 38936), (63, 39188), (72, 39311),

Gene: Rem711_54 Start: 37619, Stop: 38953, Start Num: 8

Candidate Starts for Rem711_54:

(Start: 8 @37619 has 1 MA's), (18, 37805), (22, 37868), (35, 38087), (39, 38147), (43, 38231), (44, 38243), (46, 38321), (47, 38348), (52, 38465), (53, 38483), (59, 38579), (62, 38606), (75, 38783),

Gene: Samba_58 Start: 41011, Stop: 42102, Start Num: 9

Candidate Starts for Samba_58:

(Start: 9 @41011 has 42 MA's), (19, 41167), (22, 41224), (34, 41407), (43, 41536), (44, 41548), (45, 41623), (46, 41626), (47, 41653), (70, 42004), (72, 42040),

Gene: TimTam_60 Start: 42216, Stop: 43295, Start Num: 9

Candidate Starts for TimTam_60:

(Start: 9 @42216 has 42 MA's), (18, 42366), (19, 42372), (22, 42429), (26, 42495), (27, 42498), (34, 42624), (43, 42762), (44, 42774), (45, 42849), (46, 42852), (60, 43083), (66, 43161),

Gene: Toast_59 Start: 39933, Stop: 41009, Start Num: 9

Candidate Starts for Toast_59:

(Start: 9 @39933 has 42 MA's), (10, 39948), (17, 40059), (19, 40089), (22, 40146), (30, 40257), (31, 40260), (41, 40425), (43, 40458), (44, 40470), (45, 40545), (46, 40548), (65, 40875), (72, 40962),

Gene: UmaThurman_56 Start: 38930, Stop: 40009, Start Num: 9

Candidate Starts for UmaThurman_56:

(Start: 9 @38930 has 42 MA's), (18, 39080), (19, 39086), (22, 39143), (26, 39209), (27, 39212), (34, 39338), (43, 39476), (44, 39488), (45, 39563), (46, 39566), (47, 39590), (69, 39914), (72, 39947),

Gene: Utz_51 Start: 38758, Stop: 39849, Start Num: 9

Candidate Starts for Utz_51:

(Start: 9 @38758 has 42 MA's), (17, 38884), (19, 38914), (22, 38971), (34, 39154), (43, 39283), (44, 39295), (46, 39373), (47, 39400), (72, 39787),

Gene: Vasanti_55 Start: 36701, Stop: 37735, Start Num: 9

Candidate Starts for Vasanti_55:

(Start: 9 @36701 has 42 MA's), (19, 36857), (22, 36914), (26, 36980), (27, 36983), (34, 37109), (43, 37247), (44, 37259), (46, 37337), (60, 37532), (65, 37598), (68, 37625), (72, 37667),

Gene: Walrus_57 Start: 38293, Stop: 39378, Start Num: 9

Candidate Starts for Walrus_57:

(Start: 9 @38293 has 42 MA's), (19, 38449), (22, 38506), (26, 38572), (27, 38575), (34, 38701), (43, 38839), (44, 38851), (45, 38926), (46, 38929), (47, 38956), (54, 39094), (69, 39283), (72, 39316),

Gene: Weirdo19_54 Start: 38200, Stop: 39324, Start Num: 6

Candidate Starts for Weirdo19_54:

(5, 38143), (Start: 6 @38200 has 1 MA's), (11, 38272), (12, 38281), (13, 38305), (15, 38344), (16, 38359), (19, 38395), (22, 38452), (25, 38479), (28, 38545), (29, 38572), (32, 38605), (33, 38626), (36, 38689), (37, 38722), (43, 38800), (44, 38812), (46, 38890), (48, 38920), (50, 38935), (57, 39082), (60, 39136), (66, 39217), (68, 39238), (74, 39283),

Gene: William_61 Start: 40608, Stop: 41705, Start Num: 9

Candidate Starts for William_61:

(Start: 9 @40608 has 42 MA's), (14, 40704), (18, 40758), (19, 40764), (22, 40821), (26, 40887), (27, 40890), (34, 41016), (40, 41097), (43, 41154), (44, 41166), (45, 41241), (46, 41244), (65, 41571), (72, 41658),

Gene: Wisp_58 Start: 39201, Stop: 40292, Start Num: 9

Candidate Starts for Wisp_58:

(Start: 9 @39201 has 42 MA's), (19, 39357), (22, 39414), (34, 39597), (43, 39726), (44, 39738), (45, 39813), (46, 39816), (47, 39843), (70, 40194), (72, 40230),

Gene: Zarbodnamra_58 Start: 38197, Stop: 39285, Start Num: 9

Candidate Starts for Zarbodnamra_58:

(Start: 9 @38197 has 42 MA's), (19, 38353), (22, 38410), (34, 38593), (43, 38722), (44, 38734), (45, 38809), (46, 38812), (47, 38839), (68, 39163), (70, 39187), (72, 39223),

Gene: ZiggyZoo_59 Start: 40251, Stop: 41342, Start Num: 9

Candidate Starts for ZiggyZoo_59:

(Start: 9 @40251 has 42 MA's), (19, 40407), (22, 40464), (34, 40647), (43, 40776), (44, 40788), (46, 40866), (47, 40893), (68, 41220), (70, 41244), (72, 41280),

Gene: Zilla_58 Start: 37953, Stop: 39065, Start Num: 9

Candidate Starts for Zilla_58:

(Start: 9 @37953 has 42 MA's), (19, 38109), (20, 38130), (22, 38166), (26, 38232), (27, 38235), (34, 38361), (43, 38499), (44, 38511), (46, 38589), (47, 38616), (56, 38772), (68, 38943), (70, 38967), (72, 39003),