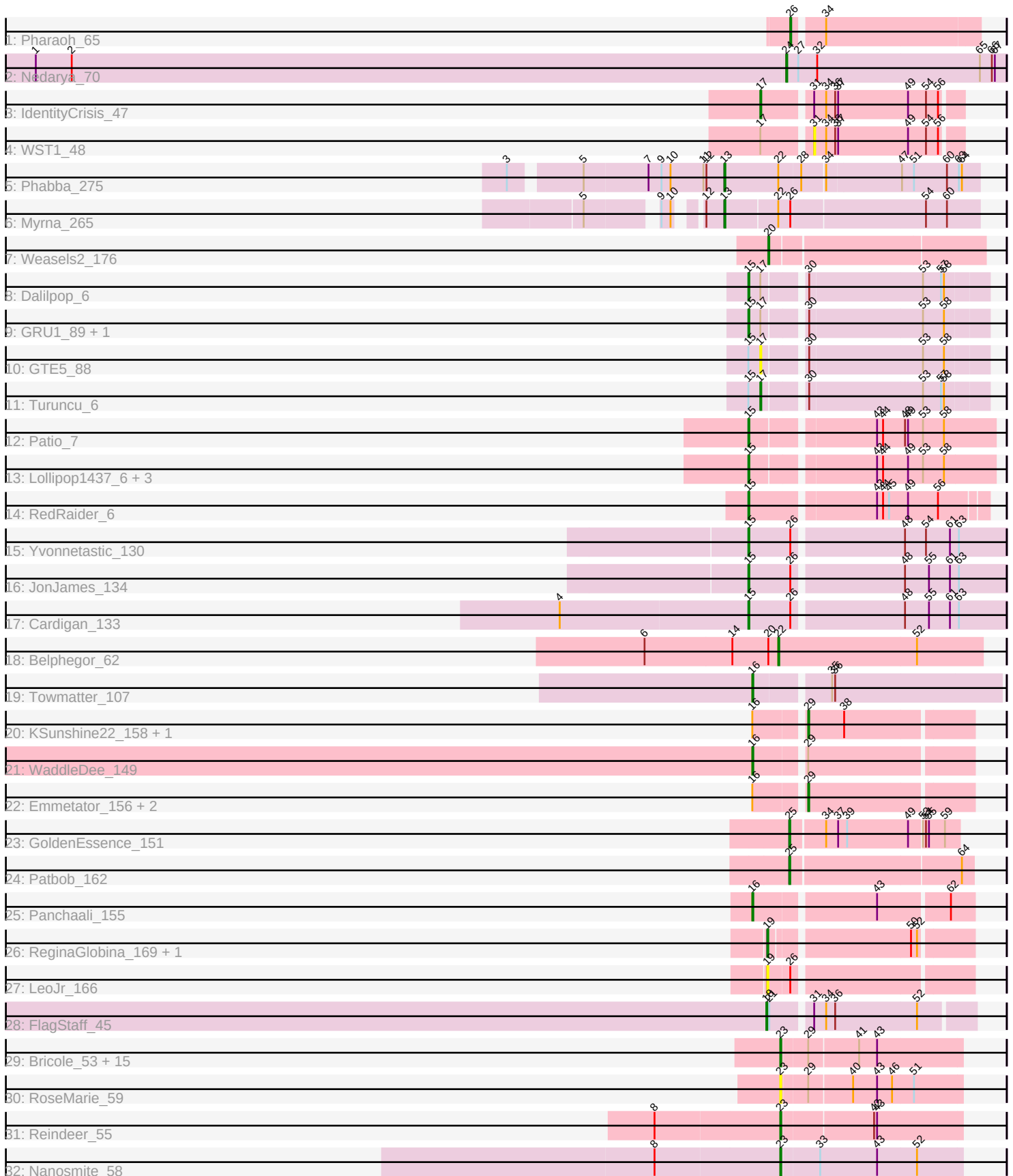




Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly 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 330914 Report

This analysis was run 09/05/26 on database version 662.

Pham number 330914 has 55 members, 10 are drafts.

Phages represented in each track:

- Track 1 : Pharaoh_65
- Track 2 : Nedarya_70
- Track 3 : IdentityCrisis_47
- Track 4 : WST1_48
- Track 5 : Phabba_275
- Track 6 : Myrna_265
- Track 7 : Weasels2_176
- Track 8 : Dalilpop_6
- Track 9 : GRU1_89, Flapper_6
- Track 10 : GTE5_88
- Track 11 : Turuncu_6
- Track 12 : Patio_7
- Track 13 : Lollipop1437_6, Float294_6, Skysand_6, Ennea_6
- Track 14 : RedRaider_6
- Track 15 : Yvonnetastic_130
- Track 16 : JonJames_134
- Track 17 : Cardigan_133
- Track 18 : Belphegor_62
- Track 19 : Towmatter_107
- Track 20 : KSunshine22_158, Ellewin_153
- Track 21 : WaddleDee_149
- Track 22 : Emmetator_156, BooTeria_153, DunneganBoMo_153
- Track 23 : GoldenEssence_151
- Track 24 : Patbob_162
- Track 25 : Panchaali_155
- Track 26 : ReginaGlobina_169, Atuin_156
- Track 27 : LeoJr_166
- Track 28 : FlagStaff_45
- Track 29 : Bricole_53, Dulcita_54, Glaske16_54, LilhomieP_52, Bongo_53, Diminimus_54, FreakyGoo_54, KleverKiS_54, IPhane7_53, Skinny_54, PegLeg_53, SlimJimmy_52, TpudiCK_55, Auspice_53, Izel_54, TyDawg_53
- Track 30 : RoseMarie_59
- Track 31 : Reindeer_55
- Track 32 : Nanosmite_58

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

The start number called the most often in the published annotations is 23, it was called in 16 of the 45 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Auspice_53, Bongo_53, Bricole_53, Diminimus_54, Dulcita_54, FreakyGoo_54, Glaske16_54, IPhone7_53, Izel_54, KleverKiS_54, LilhomieP_52, Nanosmite_58, PegLeg_53, Reindeer_55, RoseMarie_59, Skinny_54, SlimJimmy_52, TpudiCK_55, TyDawg_53,

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

-

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

- Atuin_156, Belphegor_62, BooTeria_153, Cardigan_133, Dalilpop_6, DunneganBoMo_153, Ellewin_153, Emmetator_156, Ennea_6, FlagStaff_45, Flapper_6, Float294_6, GRU1_89, GTE5_88, GoldenEssence_151, IdentityCrisis_47, JonJames_134, KSunshine22_158, LeoJr_166, Lollipop1437_6, Myrna_265, Nedarya_70, Panchaali_155, Patbob_162, Patio_7, Phabba_275, Pharaoh_65, RedRaider_6, ReginaGlobina_169, Skysand_6, Towmatter_107, Turuncu_6, WST1_48, WaddleDee_149, Weasels2_176, Yvonnetastic_130,

Summary by start number:

Start 13:

- Found in 2 of 55 (3.6%) of genes in pham
- Manual Annotations of this start: 2 of 45
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Myrna_265 (C2), Phabba_275 (C2),

Start 15:

- Found in 14 of 55 (25.5%) of genes in pham
- Manual Annotations of this start: 11 of 45
- Called 85.7% of time when present
- Phage (with cluster) where this start called: Cardigan_133 (DD), Dalilpop_6 (CR1), Ennea_6 (CR3), Flapper_6 (CR1), Float294_6 (CR3), GRU1_89 (CR1), JonJames_134 (DD), Lollipop1437_6 (CR3), Patio_7 (CR3), RedRaider_6 (CR3), Skysand_6 (CR3), Yvonnetastic_130 (DD),

Start 16:

- Found in 8 of 55 (14.5%) of genes in pham
- Manual Annotations of this start: 3 of 45
- Called 37.5% of time when present
- Phage (with cluster) where this start called: Panchaali_155 (FC), Towmatter_107 (DL), WaddleDee_149 (FC),

Start 17:

- Found in 7 of 55 (12.7%) of genes in pham
- Manual Annotations of this start: 2 of 45
- Called 42.9% of time when present

- Phage (with cluster) where this start called: GTE5_88 (CR1), IdentityCrisis_47 (AJ), Turuncu_6 (CR1),

Start 18:

- Found in 1 of 55 (1.8%) of genes in pham
- Manual Annotations of this start: 1 of 45
- Called 100.0% of time when present
- Phage (with cluster) where this start called: FlagStaff_45 (G2),

Start 19:

- Found in 3 of 55 (5.5%) of genes in pham
- Manual Annotations of this start: 1 of 45
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Atuin_156 (FC), LeoJr_166 (FC), ReginaGlobina_169 (FC),

Start 20:

- Found in 2 of 55 (3.6%) of genes in pham
- Manual Annotations of this start: 1 of 45
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Weasels2_176 (CB),

Start 22:

- Found in 3 of 55 (5.5%) of genes in pham
- Manual Annotations of this start: 1 of 45
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Belphegor_62 (DE2),

Start 23:

- Found in 19 of 55 (34.5%) of genes in pham
- Manual Annotations of this start: 16 of 45
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Auspice_53 (M1), Bongo_53 (M1), Bricole_53 (M1), Diminimus_54 (M1), Dulcita_54 (M1), FreakyGoo_54 (M1), Glaske16_54 (M1), IPhane7_53 (M1), Izel_54 (M1), KleverKiS_54 (M1), LilhomieP_52 (M1), Nanosmite_58 (M3), PegLeg_53 (M1), Reindeer_55 (M1), RoseMarie_59 (M1), Skinny_54 (M1), SlimJimmy_52 (M1), TpudiCK_55 (M1), TyDawg_53 (M1),

Start 24:

- Found in 1 of 55 (1.8%) of genes in pham
- Manual Annotations of this start: 1 of 45
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Nedarya_70 (A15),

Start 25:

- Found in 2 of 55 (3.6%) of genes in pham
- Manual Annotations of this start: 2 of 45
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GoldenEssence_151 (FC), Patbob_162 (FC),

Start 26:

- Found in 6 of 55 (10.9%) of genes in pham
- Manual Annotations of this start: 1 of 45
- Called 16.7% of time when present
- Phage (with cluster) where this start called: Pharaoh_65 (A12),

Start 29:

- Found in 23 of 55 (41.8%) of genes in pham
- Manual Annotations of this start: 3 of 45
- Called 21.7% of time when present
- Phage (with cluster) where this start called: BooTeria_153 (FC),
DunneganBoMo_153 (FC), Ellewin_153 (FC), Emmetator_156 (FC),
KSunshine22_158 (FC),

Start 31:

- Found in 3 of 55 (5.5%) of genes in pham
- No Manual Annotations of this start.
- Called 33.3% of time when present
- Phage (with cluster) where this start called: WST1_48 (AJ),

Summary by clusters:

There are 14 clusters represented in this pham: A15, CR3, DL, CR1, G2, A12, CB, DE2, AJ, FC, M1, M3, C2, DD,

Info for manual annotations of cluster A12:

- Start number 26 was manually annotated 1 time for cluster A12.

Info for manual annotations of cluster A15:

- Start number 24 was manually annotated 1 time for cluster A15.

Info for manual annotations of cluster AJ:

- Start number 17 was manually annotated 1 time for cluster AJ.

Info for manual annotations of cluster C2:

- Start number 13 was manually annotated 2 times for cluster C2.

Info for manual annotations of cluster CB:

- Start number 20 was manually annotated 1 time for cluster CB.

Info for manual annotations of cluster CR1:

- Start number 15 was manually annotated 2 times for cluster CR1.
- Start number 17 was manually annotated 1 time for cluster CR1.

Info for manual annotations of cluster CR3:

- Start number 15 was manually annotated 6 times for cluster CR3.

Info for manual annotations of cluster DD:

- Start number 15 was manually annotated 3 times for cluster DD.

Info for manual annotations of cluster DE2:

- Start number 22 was manually annotated 1 time for cluster DE2.

Info for manual annotations of cluster DL:

- Start number 16 was manually annotated 1 time for cluster DL.

Info for manual annotations of cluster FC:

- Start number 16 was manually annotated 2 times for cluster FC.
- Start number 19 was manually annotated 1 time for cluster FC.
- Start number 25 was manually annotated 2 times for cluster FC.
- Start number 29 was manually annotated 3 times for cluster FC.

Info for manual annotations of cluster G2:

- Start number 18 was manually annotated 1 time for cluster G2.

Info for manual annotations of cluster M1:

- Start number 23 was manually annotated 15 times for cluster M1.

Info for manual annotations of cluster M3:

- Start number 23 was manually annotated 1 time for cluster M3.

Gene Information:

Gene: Atuin_156 Start: 110180, Stop: 110365, Start Num: 19

Candidate Starts for Atuin_156:

(Start: 19 @110180 has 1 MA's), (50, 110309), (52, 110315),

Gene: Auspice_53 Start: 38208, Stop: 38381, Start Num: 23

Candidate Starts for Auspice_53:

(Start: 23 @38208 has 16 MA's), (Start: 29 @38232 has 3 MA's), (41, 38280), (43, 38298),

Gene: Belphegor_62 Start: 49602, Stop: 49805, Start Num: 22

Candidate Starts for Belphegor_62:

(6, 49470), (14, 49557), (Start: 20 @49593 has 1 MA's), (Start: 22 @49602 has 1 MA's), (52, 49740),

Gene: Bongo_53 Start: 38212, Stop: 38385, Start Num: 23

Candidate Starts for Bongo_53:

(Start: 23 @38212 has 16 MA's), (Start: 29 @38236 has 3 MA's), (41, 38284), (43, 38302),

Gene: BooTeria_153 Start: 107851, Stop: 108009, Start Num: 29

Candidate Starts for BooTeria_153:

(Start: 16 @107806 has 3 MA's), (Start: 29 @107851 has 3 MA's),

Gene: Bricole_53 Start: 38194, Stop: 38367, Start Num: 23

Candidate Starts for Bricole_53:

(Start: 23 @38194 has 16 MA's), (Start: 29 @38218 has 3 MA's), (41, 38266), (43, 38284),

Gene: Cardigan_133 Start: 76837, Stop: 77085, Start Num: 15

Candidate Starts for Cardigan_133:

(4, 76651), (Start: 15 @76837 has 11 MA's), (Start: 26 @76879 has 1 MA's), (48, 76984), (55, 77008), (61, 77029), (63, 77038),

Gene: Dalilpop_6 Start: 4569, Stop: 4790, Start Num: 15

Candidate Starts for Dalilpop_6:

(Start: 15 @4569 has 11 MA's), (Start: 17 @4581 has 2 MA's), (30, 4617), (53, 4728), (57, 4746), (58, 4749),

Gene: Diminimus_54 Start: 38207, Stop: 38380, Start Num: 23

Candidate Starts for Diminimus_54:

(Start: 23 @38207 has 16 MA's), (Start: 29 @38231 has 3 MA's), (41, 38279), (43, 38297),

Gene: Dulcita_54 Start: 38208, Stop: 38381, Start Num: 23

Candidate Starts for Dulcita_54:

(Start: 23 @38208 has 16 MA's), (Start: 29 @38232 has 3 MA's), (41, 38280), (43, 38298),

Gene: DunneganBoMo_153 Start: 107120, Stop: 107278, Start Num: 29

Candidate Starts for DunneganBoMo_153:

(Start: 16 @107075 has 3 MA's), (Start: 29 @107120 has 3 MA's),

Gene: Ellewin_153 Start: 107224, Stop: 107382, Start Num: 29

Candidate Starts for Ellewin_153:

(Start: 16 @107179 has 3 MA's), (Start: 29 @107224 has 3 MA's), (38, 107260),

Gene: Emmetator_156 Start: 107433, Stop: 107591, Start Num: 29

Candidate Starts for Emmetator_156:

(Start: 16 @107388 has 3 MA's), (Start: 29 @107433 has 3 MA's),

Gene: Ennea_6 Start: 4376, Stop: 4606, Start Num: 15

Candidate Starts for Ennea_6:

(Start: 15 @4376 has 11 MA's), (43, 4490), (44, 4496), (49, 4520), (53, 4535), (58, 4556),

Gene: FlagStaff_45 Start: 36055, Stop: 36249, Start Num: 18

Candidate Starts for FlagStaff_45:

(Start: 18 @36055 has 1 MA's), (21, 36058), (31, 36094), (34, 36106), (36, 36115), (52, 36196),

Gene: Flapper_6 Start: 3864, Stop: 4085, Start Num: 15

Candidate Starts for Flapper_6:

(Start: 15 @3864 has 11 MA's), (Start: 17 @3876 has 2 MA's), (30, 3912), (53, 4023), (58, 4044),

Gene: Float294_6 Start: 4362, Stop: 4592, Start Num: 15

Candidate Starts for Float294_6:

(Start: 15 @4362 has 11 MA's), (43, 4476), (44, 4482), (49, 4506), (53, 4521), (58, 4542),

Gene: FreakyGoo_54 Start: 38208, Stop: 38381, Start Num: 23

Candidate Starts for FreakyGoo_54:

(Start: 23 @38208 has 16 MA's), (Start: 29 @38232 has 3 MA's), (41, 38280), (43, 38298),

Gene: GRU1_89 Start: 62882, Stop: 63103, Start Num: 15

Candidate Starts for GRU1_89:

(Start: 15 @62882 has 11 MA's), (Start: 17 @62894 has 2 MA's), (30, 62930), (53, 63041), (58, 63062),

Gene: GTE5_88 Start: 63789, Stop: 63998, Start Num: 17

Candidate Starts for GTE5_88:

(Start: 15 @63777 has 11 MA's), (Start: 17 @63789 has 2 MA's), (30, 63825), (53, 63936), (58, 63957),

Gene: Glaske16_54 Start: 38207, Stop: 38380, Start Num: 23

Candidate Starts for Glaske16_54:

(Start: 23 @38207 has 16 MA's), (Start: 29 @38231 has 3 MA's), (41, 38279), (43, 38297),

Gene: GoldenEssence_151 Start: 104838, Stop: 104999, Start Num: 25

Candidate Starts for GoldenEssence_151:

(Start: 25 @104838 has 2 MA's), (34, 104871), (37, 104883), (39, 104892), (49, 104952), (53, 104964), (54, 104967), (55, 104970), (59, 104985),

Gene: IPHane7_53 Start: 38212, Stop: 38385, Start Num: 23

Candidate Starts for IPHane7_53:

(Start: 23 @38212 has 16 MA's), (Start: 29 @38236 has 3 MA's), (41, 38284), (43, 38302),

Gene: IdentityCrisis_47 Start: 31026, Stop: 31214, Start Num: 17

Candidate Starts for IdentityCrisis_47:

(Start: 17 @31026 has 2 MA's), (31, 31071), (34, 31083), (36, 31092), (37, 31095), (49, 31164), (54, 31182), (56, 31194),

Gene: Izel_54 Start: 38207, Stop: 38380, Start Num: 23

Candidate Starts for Izel_54:

(Start: 23 @38207 has 16 MA's), (Start: 29 @38231 has 3 MA's), (41, 38279), (43, 38297),

Gene: JonJames_134 Start: 77470, Stop: 77718, Start Num: 15

Candidate Starts for JonJames_134:

(Start: 15 @77470 has 11 MA's), (Start: 26 @77512 has 1 MA's), (48, 77617), (55, 77641), (61, 77662), (63, 77671),

Gene: KSunshine22_158 Start: 108183, Stop: 108341, Start Num: 29

Candidate Starts for KSunshine22_158:

(Start: 16 @108138 has 3 MA's), (Start: 29 @108183 has 3 MA's), (38, 108219),

Gene: KleverKiS_54 Start: 38188, Stop: 38361, Start Num: 23

Candidate Starts for KleverKiS_54:

(Start: 23 @38188 has 16 MA's), (Start: 29 @38212 has 3 MA's), (41, 38260), (43, 38278),

Gene: LeoJr_166 Start: 110788, Stop: 110976, Start Num: 19

Candidate Starts for LeoJr_166:

(Start: 19 @110788 has 1 MA's), (Start: 26 @110809 has 1 MA's),

Gene: LilhomieP_52 Start: 38212, Stop: 38385, Start Num: 23

Candidate Starts for LilhomieP_52:

(Start: 23 @38212 has 16 MA's), (Start: 29 @38236 has 3 MA's), (41, 38284), (43, 38302),

Gene: Lollipop1437_6 Start: 4364, Stop: 4594, Start Num: 15

Candidate Starts for Lollipop1437_6:

(Start: 15 @4364 has 11 MA's), (43, 4478), (44, 4484), (49, 4508), (53, 4523), (58, 4544),

Gene: Myrna_265 Start: 162813, Stop: 163058, Start Num: 13

Candidate Starts for Myrna_265:

(5, 162711), (9, 162771), (10, 162780), (12, 162795), (Start: 13 @162813 has 2 MA's), (Start: 22 @162864 has 1 MA's), (Start: 26 @162876 has 1 MA's), (54, 163005), (60, 163026),

Gene: Nanosmite_58 Start: 39866, Stop: 40042, Start Num: 23

Candidate Starts for Nanosmite_58:

(8, 39743), (Start: 23 @39866 has 16 MA's), (33, 39902), (43, 39959), (52, 39998),

Gene: Nedarya_70 Start: 40759, Stop: 40541, Start Num: 24

Candidate Starts for Nedarya_70:

(1, 41509), (2, 41473), (Start: 24 @40759 has 1 MA's), (27, 40747), (32, 40729), (65, 40567), (66, 40555), (67, 40552),

Gene: Panchaali_155 Start: 107904, Stop: 108107, Start Num: 16

Candidate Starts for Panchaali_155:

(Start: 16 @107904 has 3 MA's), (43, 108018), (62, 108084),

Gene: Patbob_162 Start: 111552, Stop: 111728, Start Num: 25

Candidate Starts for Patbob_162:

(Start: 25 @111552 has 2 MA's), (64, 111717),

Gene: Patio_7 Start: 5032, Stop: 5262, Start Num: 15

Candidate Starts for Patio_7:

(Start: 15 @5032 has 11 MA's), (43, 5146), (44, 5152), (48, 5173), (49, 5176), (53, 5191), (58, 5212),

Gene: PegLeg_53 Start: 38211, Stop: 38384, Start Num: 23

Candidate Starts for PegLeg_53:

(Start: 23 @38211 has 16 MA's), (Start: 29 @38235 has 3 MA's), (41, 38283), (43, 38301),

Gene: Phabba_275 Start: 161775, Stop: 162020, Start Num: 13

Candidate Starts for Phabba_275:

(3, 161574), (5, 161637), (7, 161700), (9, 161712), (10, 161721), (11, 161754), (12, 161757), (Start: 13 @161775 has 2 MA's), (Start: 22 @161829 has 1 MA's), (28, 161850), (34, 161871), (47, 161943), (51, 161955), (60, 161988), (63, 162000), (64, 162003),

Gene: Pharaoh_65 Start: 41502, Stop: 41326, Start Num: 26

Candidate Starts for Pharaoh_65:

(Start: 26 @41502 has 1 MA's), (34, 41475),

Gene: RedRaider_6 Start: 4303, Stop: 4524, Start Num: 15

Candidate Starts for RedRaider_6:

(Start: 15 @4303 has 11 MA's), (43, 4420), (44, 4426), (45, 4432), (49, 4450), (56, 4480),

Gene: ReginaGlobina_169 Start: 112062, Stop: 112247, Start Num: 19

Candidate Starts for ReginaGlobina_169:

(Start: 19 @112062 has 1 MA's), (50, 112191), (52, 112197),

Gene: Reindeer_55 Start: 39414, Stop: 39587, Start Num: 23

Candidate Starts for Reindeer_55:

(8, 39291), (Start: 23 @39414 has 16 MA's), (42, 39501), (43, 39504),

Gene: RoseMarie_59 Start: 41858, Stop: 42031, Start Num: 23

Candidate Starts for RoseMarie_59:

(Start: 23 @41858 has 16 MA's), (Start: 29 @41882 has 3 MA's), (40, 41924), (43, 41948), (46, 41963), (51, 41984),

Gene: Skinny_54 Start: 38641, Stop: 38814, Start Num: 23

Candidate Starts for Skinny_54:

(Start: 23 @38641 has 16 MA's), (Start: 29 @38665 has 3 MA's), (41, 38713), (43, 38731),

Gene: Skysand_6 Start: 4364, Stop: 4594, Start Num: 15

Candidate Starts for Skysand_6:

(Start: 15 @4364 has 11 MA's), (43, 4478), (44, 4484), (49, 4508), (53, 4523), (58, 4544),

Gene: SlimJimmy_52 Start: 38195, Stop: 38368, Start Num: 23

Candidate Starts for SlimJimmy_52:

(Start: 23 @38195 has 16 MA's), (Start: 29 @38219 has 3 MA's), (41, 38267), (43, 38285),

Gene: Towmatter_107 Start: 68561, Stop: 68797, Start Num: 16

Candidate Starts for Towmatter_107:

(Start: 16 @68561 has 3 MA's), (35, 68630), (36, 68633),

Gene: TpudiCK_55 Start: 38211, Stop: 38384, Start Num: 23

Candidate Starts for TpudiCK_55:

(Start: 23 @38211 has 16 MA's), (Start: 29 @38235 has 3 MA's), (41, 38283), (43, 38301),

Gene: Turuncu_6 Start: 3772, Stop: 3981, Start Num: 17

Candidate Starts for Turuncu_6:

(Start: 15 @3760 has 11 MA's), (Start: 17 @3772 has 2 MA's), (30, 3808), (53, 3919), (57, 3937), (58, 3940),

Gene: TyDawg_53 Start: 38212, Stop: 38385, Start Num: 23

Candidate Starts for TyDawg_53:

(Start: 23 @38212 has 16 MA's), (Start: 29 @38236 has 3 MA's), (41, 38284), (43, 38302),

Gene: WST1_48 Start: 30928, Stop: 31071, Start Num: 31

Candidate Starts for WST1_48:

(Start: 17 @30883 has 2 MA's), (31, 30928), (34, 30940), (36, 30949), (37, 30952), (49, 31021), (54, 31039), (56, 31051),

Gene: WaddleDee_149 Start: 106261, Stop: 106464, Start Num: 16

Candidate Starts for WaddleDee_149:

(Start: 16 @106261 has 3 MA's), (Start: 29 @106306 has 3 MA's),

Gene: Weasels2_176 Start: 96304, Stop: 96510, Start Num: 20

Candidate Starts for Weasels2_176:

(Start: 20 @96304 has 1 MA's),

Gene: Yvonnetastic_130 Start: 73750, Stop: 73998, Start Num: 15

Candidate Starts for Yvonnetastic_130:

(Start: 15 @73750 has 11 MA's), (Start: 26 @73792 has 1 MA's), (48, 73897), (54, 73918), (61, 73942), (63, 73951),