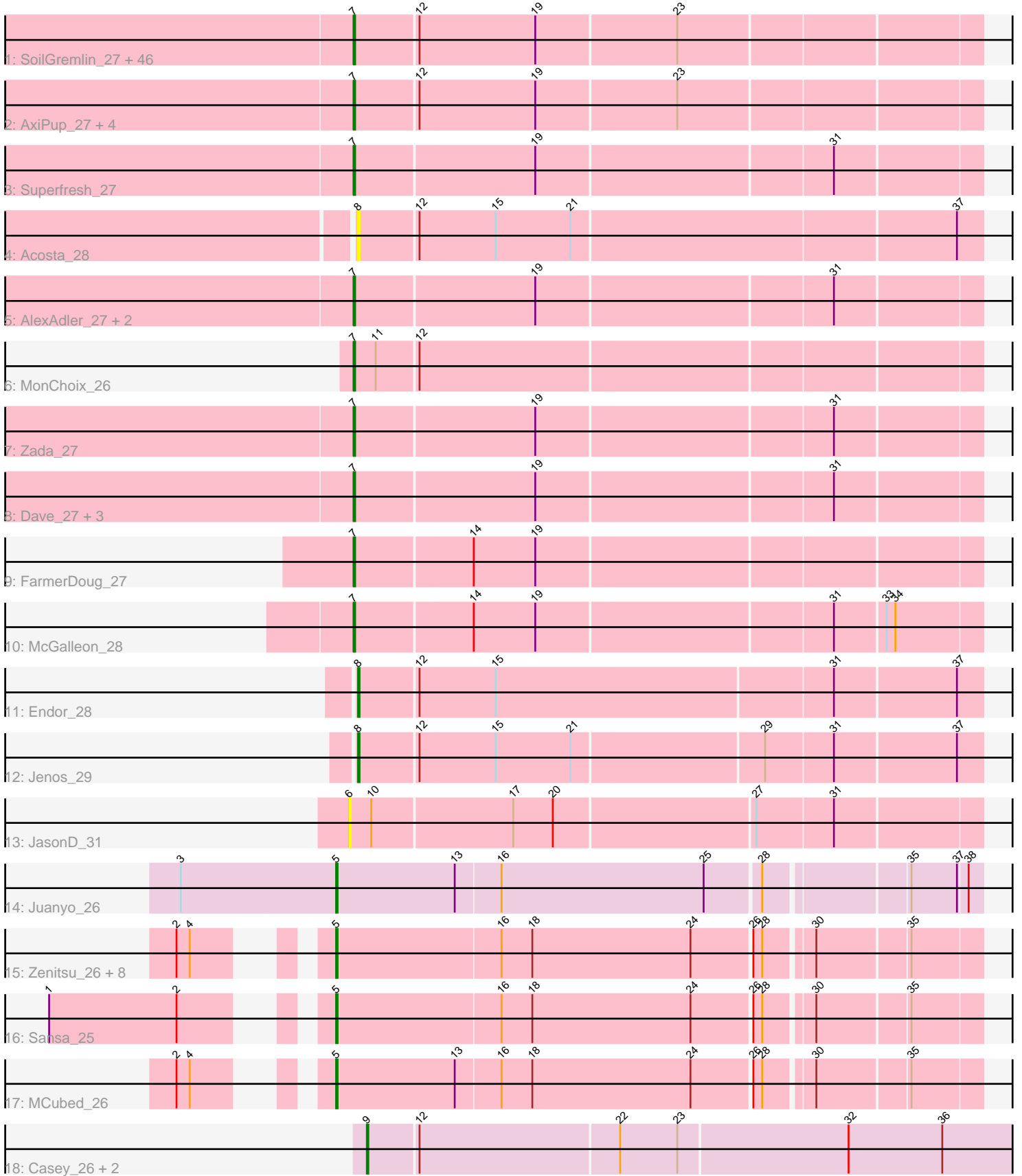


Pham 171388



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 171388 Report

This analysis was run 07/10/24 on database version 566.

Pham number 171388 has 83 members, 8 are drafts.

Phages represented in each track:

- Track 1 : SoilGremlin_27, NickSell_28, Ludgate_27, Phriends_27, MaeLinda_27, Teagan_27, Dothraki_27, MillyPhilly_27, Convict_27, Shee_27, Lovelyunicorn_27, Riyhil_27, Byron23_27, Inventa_27, Alyxandracam_27, Gargoyle_27, Kurt1_27, Bandik_27, Oxtober96_27, Rapheph_27, Delphidian_28, Strathdee_27, Martin_28, OldNelly_27, TatarkaPM_27, Nagem_27, Greys_27, Blage_27, Phireproof_27, BigRedClifford_27, Den3_27, Pherferi_27, Ioannes_27, ParleG_27, BeautPeep30_27, PhredFlintston_27, SJay_27, Knox_27, WildNOOut_27, TinSulphur_27, Velene_27, Stanktossa_27, Thompsone_27, Phiderman_27, Raptor_27, MrWorldwide_27, BonesMcCoy_27
- Track 2 : AxiPup_27, PuppyEggo_27, ShaiHulud_27, Thorongil_27, Vispistious_27
- Track 3 : Superfresh_27
- Track 4 : Acosta_28
- Track 5 : AlexAdler_27, Figueroism_27, Robinson_27
- Track 6 : MonChoix_26
- Track 7 : Zada_27
- Track 8 : Dave_27, Renzie_27, Antoinette_27, Peep_27
- Track 9 : FarmerDoug_27
- Track 10 : McGalleon_28
- Track 11 : Endor_28
- Track 12 : Jenos_29
- Track 13 : JasonD_31
- Track 14 : Juanyo_26
- Track 15 : Zenitsu_26, ChikPic_26, Andromedas_26, Finny_26, Saratos_26, Glamour_25, Eleri_26, ColaCorta_26, Shamu_26
- Track 16 : Sansa_25
- Track 17 : MCubed_26
- Track 18 : Casey_26, Pajaza_26, Pikmin_26

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 58 of the 75 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AlexAdler_27, Alyxandracam_27, Antoinette_27, AxiPup_27, Bandik_27, BeautPeep30_27, BigRedClifford_27, Blage_27, BonesMcCoy_27, Byron23_27, Convict_27, Dave_27, Delphidian_28, Den3_27, Dothraki_27, FarmerDoug_27, Figueroism_27, Gargoyle_27, Greys_27, Inventa_27, Ioannes_27, Knox_27, Kurt1_27, Lovelyunicorn_27, Ludgate_27, MaeLinda_27, Martin_28, McGalleon_28, MillyPhilly_27, MonChoix_26, MrWorldwide_27, Nagem_27, NickSell_28, OldNelly_27, Oxtober96_27, ParleG_27, Peep_27, Pherferi_27, Phiderman_27, Phireproof_27, PhredFlintston_27, Phriends_27, PuppyEggo_27, Rappheph_27, Raptor_27, Renzie_27, Riyhil_27, Robinson_27, SJay_27, ShaiHulud_27, Shee_27, SoilGremlin_27, Stanktossa_27, Strathdee_27, Superfresh_27, TatarkaPM_27, Teagan_27, Thompsone_27, Thorongil_27, TinSulphur_27, Velene_27, Vispistious_27, WildNOut_27, Zada_27,

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

-

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

- Acosta_28, Andromedas_26, Casey_26, ChikPic_26, ColaCorta_26, Eleri_26, Endor_28, Finny_26, Glamour_25, JasonD_31, Jenos_29, Juanyo_26, MCubed_26, Pajaza_26, Pikmin_26, Sansa_25, Saratos_26, Shamu_26, Zenitsu_26,

Summary by start number:

Start 5:

- Found in 12 of 83 (14.5%) of genes in pham
- Manual Annotations of this start: 12 of 75
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Andromedas_26 (EA2), ChikPic_26 (EA2), ColaCorta_26 (EA2), Eleri_26 (EA2), Finny_26 (EA2), Glamour_25 (EA2), Juanyo_26 (EA10), MCubed_26 (EA2), Sansa_25 (EA2), Saratos_26 (EA2), Shamu_26 (EA2), Zenitsu_26 (EA2),

Start 6:

- Found in 1 of 83 (1.2%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: JasonD_31 (EA1),

Start 7:

- Found in 64 of 83 (77.1%) of genes in pham
- Manual Annotations of this start: 58 of 75
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AlexAdler_27 (EA1), Alyxandracam_27 (EA1), Antoinette_27 (EA1), AxiPup_27 (EA1), Bandik_27 (EA1), BeautPeep30_27 (EA1), BigRedClifford_27 (EA1), Blage_27 (EA1), BonesMcCoy_27 (EA1), Byron23_27 (EA1), Convict_27 (EA1), Dave_27 (EA1), Delphidian_28 (EA1), Den3_27 (EA1), Dothraki_27 (EA1), FarmerDoug_27 (EA1), Figueroism_27 (EA1), Gargoyle_27 (EA1), Greys_27 (EA1), Inventa_27 (EA1), Ioannes_27 (EA1), Knox_27 (EA1), Kurt1_27 (EA1), Lovelyunicorn_27 (EA1), Ludgate_27 (EA1), MaeLinda_27 (EA1), Martin_28 (EA1), McGalleon_28 (EA1), MillyPhilly_27 (EA1), MonChoix_26 (EA1), MrWorldwide_27 (EA1), Nagem_27 (EA1), NickSell_28 (EA1), OldNelly_27 (EA1), Oxtober96_27 (EA1), ParleG_27 (EA1), Peep_27 (EA1), Pherferi_27 (EA1), Phiderman_27 (EA1), Phireproof_27 (EA1), PhredFlintston_27 (EA1), Phriends_27

(EA1), PuppyEggo_27 (EA1), Rapphep_27 (EA1), Raptor_27 (EA1), Renzie_27 (EA1), Riyhil_27 (EA1), Robinson_27 (EA1), SJay_27 (EA1), ShaiHulud_27 (EA1), Shee_27 (EA1), SoilGremlin_27 (EA1), Stanktossa_27 (EA1), Strathdee_27 (EA1), Superfresh_27 (EA1), TatarkaPM_27 (EA1), Teagan_27 (EA1), Thompsone_27 (EA1), Thorongil_27 (EA1), TinSulphur_27 (EA1), Velene_27 (EA1), Vispistious_27 (EA1), WildNOut_27 (EA1), Zada_27 (EA1),

Start 8:

- Found in 3 of 83 (3.6%) of genes in pham
- Manual Annotations of this start: 2 of 75
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Acosta_28 (EA1), Endor_28 (EA1), Jenos_29 (EA1),

Start 9:

- Found in 3 of 83 (3.6%) of genes in pham
- Manual Annotations of this start: 3 of 75
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Casey_26 (EA3), Pajaza_26 (EA3), Pikmin_26 (EA3),

Summary by clusters:

There are 4 clusters represented in this pham: EA1, EA3, EA2, EA10,

Info for manual annotations of cluster EA1:

- Start number 7 was manually annotated 58 times for cluster EA1.
- Start number 8 was manually annotated 2 times for cluster EA1.

Info for manual annotations of cluster EA10:

- Start number 5 was manually annotated 1 time for cluster EA10.

Info for manual annotations of cluster EA2:

- Start number 5 was manually annotated 11 times for cluster EA2.

Info for manual annotations of cluster EA3:

- Start number 9 was manually annotated 3 times for cluster EA3.

Gene Information:

Gene: Acosta_28 Start: 20180, Stop: 20593, Start Num: 8

Candidate Starts for Acosta_28:

(Start: 8 @20180 has 2 MA's), (12, 20219), (15, 20270), (21, 20321), (37, 20576),

Gene: AlexAdler_27 Start: 19886, Stop: 20296, Start Num: 7

Candidate Starts for AlexAdler_27:

(Start: 7 @19886 has 58 MA's), (19, 20006), (31, 20201),

Gene: Alyxandracam_27 Start: 19895, Stop: 20305, Start Num: 7

Candidate Starts for Alyxandracam_27:

(Start: 7 @19895 has 58 MA's), (12, 19937), (19, 20015), (23, 20108),

Gene: Andromedas_26 Start: 19937, Stop: 20356, Start Num: 5

Candidate Starts for Andromedas_26:

(2, 19874), (4, 19883), (Start: 5 @19937 has 12 MA's), (16, 20048), (18, 20069), (24, 20177), (26, 20216), (28, 20222), (30, 20252), (35, 20312),

Gene: Antoinette_27 Start: 19883, Stop: 20293, Start Num: 7

Candidate Starts for Antoinette_27:

(Start: 7 @19883 has 58 MA's), (19, 20003), (31, 20198),

Gene: AxiPup_27 Start: 19895, Stop: 20305, Start Num: 7

Candidate Starts for AxiPup_27:

(Start: 7 @19895 has 58 MA's), (12, 19937), (19, 20015), (23, 20108),

Gene: Bandik_27 Start: 19891, Stop: 20301, Start Num: 7

Candidate Starts for Bandik_27:

(Start: 7 @19891 has 58 MA's), (12, 19933), (19, 20011), (23, 20104),

Gene: BeautPeep30_27 Start: 19897, Stop: 20307, Start Num: 7

Candidate Starts for BeautPeep30_27:

(Start: 7 @19897 has 58 MA's), (12, 19939), (19, 20017), (23, 20110),

Gene: BigRedClifford_27 Start: 19895, Stop: 20305, Start Num: 7

Candidate Starts for BigRedClifford_27:

(Start: 7 @19895 has 58 MA's), (12, 19937), (19, 20015), (23, 20108),

Gene: Blage_27 Start: 19895, Stop: 20305, Start Num: 7

Candidate Starts for Blage_27:

(Start: 7 @19895 has 58 MA's), (12, 19937), (19, 20015), (23, 20108),

Gene: BonesMcCoy_27 Start: 19895, Stop: 20305, Start Num: 7

Candidate Starts for BonesMcCoy_27:

(Start: 7 @19895 has 58 MA's), (12, 19937), (19, 20015), (23, 20108),

Gene: Byron23_27 Start: 19900, Stop: 20310, Start Num: 7

Candidate Starts for Byron23_27:

(Start: 7 @19900 has 58 MA's), (12, 19942), (19, 20020), (23, 20113),

Gene: Casey_26 Start: 20263, Stop: 20694, Start Num: 9

Candidate Starts for Casey_26:

(Start: 9 @20263 has 3 MA's), (12, 20296), (22, 20428), (23, 20467), (32, 20581), (36, 20644),

Gene: ChikPic_26 Start: 19953, Stop: 20372, Start Num: 5

Candidate Starts for ChikPic_26:

(2, 19890), (4, 19899), (Start: 5 @19953 has 12 MA's), (16, 20064), (18, 20085), (24, 20193), (26, 20232), (28, 20238), (30, 20268), (35, 20328),

Gene: ColaCorta_26 Start: 19937, Stop: 20356, Start Num: 5

Candidate Starts for ColaCorta_26:

(2, 19874), (4, 19883), (Start: 5 @19937 has 12 MA's), (16, 20048), (18, 20069), (24, 20177), (26, 20216), (28, 20222), (30, 20252), (35, 20312),

Gene: Convict_27 Start: 19895, Stop: 20305, Start Num: 7

Candidate Starts for Convict_27:

(Start: 7 @19895 has 58 MA's), (12, 19937), (19, 20015), (23, 20108),

Gene: Dave_27 Start: 19883, Stop: 20293, Start Num: 7

Candidate Starts for Dave_27:

(Start: 7 @19883 has 58 MA's), (19, 20003), (31, 20198),

Gene: Delphidian_28 Start: 19894, Stop: 20304, Start Num: 7

Candidate Starts for Delphidian_28:

(Start: 7 @19894 has 58 MA's), (12, 19936), (19, 20014), (23, 20107),

Gene: Den3_27 Start: 19899, Stop: 20309, Start Num: 7

Candidate Starts for Den3_27:

(Start: 7 @19899 has 58 MA's), (12, 19941), (19, 20019), (23, 20112),

Gene: Dothraki_27 Start: 19897, Stop: 20307, Start Num: 7

Candidate Starts for Dothraki_27:

(Start: 7 @19897 has 58 MA's), (12, 19939), (19, 20017), (23, 20110),

Gene: Eleri_26 Start: 19950, Stop: 20369, Start Num: 5

Candidate Starts for Eleri_26:

(2, 19887), (4, 19896), (Start: 5 @19950 has 12 MA's), (16, 20061), (18, 20082), (24, 20190), (26, 20229), (28, 20235), (30, 20265), (35, 20325),

Gene: Endor_28 Start: 20303, Stop: 20716, Start Num: 8

Candidate Starts for Endor_28:

(Start: 8 @20303 has 2 MA's), (12, 20342), (15, 20393), (31, 20618), (37, 20699),

Gene: FarmerDoug_27 Start: 19924, Stop: 20334, Start Num: 7

Candidate Starts for FarmerDoug_27:

(Start: 7 @19924 has 58 MA's), (14, 20002), (19, 20044),

Gene: Figueroism_27 Start: 19882, Stop: 20292, Start Num: 7

Candidate Starts for Figueroism_27:

(Start: 7 @19882 has 58 MA's), (19, 20002), (31, 20197),

Gene: Finny_26 Start: 19936, Stop: 20355, Start Num: 5

Candidate Starts for Finny_26:

(2, 19873), (4, 19882), (Start: 5 @19936 has 12 MA's), (16, 20047), (18, 20068), (24, 20176), (26, 20215), (28, 20221), (30, 20251), (35, 20311),

Gene: Gargoyle_27 Start: 19897, Stop: 20307, Start Num: 7

Candidate Starts for Gargoyle_27:

(Start: 7 @19897 has 58 MA's), (12, 19939), (19, 20017), (23, 20110),

Gene: Glamour_25 Start: 19938, Stop: 20357, Start Num: 5

Candidate Starts for Glamour_25:

(2, 19875), (4, 19884), (Start: 5 @19938 has 12 MA's), (16, 20049), (18, 20070), (24, 20178), (26, 20217), (28, 20223), (30, 20253), (35, 20313),

Gene: Greys_27 Start: 19892, Stop: 20302, Start Num: 7

Candidate Starts for Greys_27:

(Start: 7 @19892 has 58 MA's), (12, 19934), (19, 20012), (23, 20105),

Gene: Inventa_27 Start: 19897, Stop: 20307, Start Num: 7
Candidate Starts for Inventa_27:
(Start: 7 @19897 has 58 MA's), (12, 19939), (19, 20017), (23, 20110),

Gene: loannes_27 Start: 19895, Stop: 20305, Start Num: 7
Candidate Starts for loannes_27:
(Start: 7 @19895 has 58 MA's), (12, 19937), (19, 20015), (23, 20108),

Gene: JasonD_31 Start: 20345, Stop: 20758, Start Num: 6
Candidate Starts for JasonD_31:
(6, 20345), (10, 20360), (17, 20453), (20, 20480), (27, 20612), (31, 20663),

Gene: Jenos_29 Start: 20622, Stop: 21032, Start Num: 8
Candidate Starts for Jenos_29:
(Start: 8 @20622 has 2 MA's), (12, 20661), (15, 20712), (21, 20763), (29, 20889), (31, 20934), (37, 21015),

Gene: Juanyo_26 Start: 20158, Stop: 20577, Start Num: 5
Candidate Starts for Juanyo_26:
(3, 20053), (Start: 5 @20158 has 12 MA's), (13, 20239), (16, 20269), (25, 20407), (28, 20443), (35, 20533), (37, 20563), (38, 20569),

Gene: Knox_27 Start: 19895, Stop: 20305, Start Num: 7
Candidate Starts for Knox_27:
(Start: 7 @19895 has 58 MA's), (12, 19937), (19, 20015), (23, 20108),

Gene: Kurt1_27 Start: 19897, Stop: 20307, Start Num: 7
Candidate Starts for Kurt1_27:
(Start: 7 @19897 has 58 MA's), (12, 19939), (19, 20017), (23, 20110),

Gene: Lovelyunicorn_27 Start: 19895, Stop: 20305, Start Num: 7
Candidate Starts for Lovelyunicorn_27:
(Start: 7 @19895 has 58 MA's), (12, 19937), (19, 20015), (23, 20108),

Gene: Ludgate_27 Start: 19891, Stop: 20301, Start Num: 7
Candidate Starts for Ludgate_27:
(Start: 7 @19891 has 58 MA's), (12, 19933), (19, 20011), (23, 20104),

Gene: MCubed_26 Start: 19964, Stop: 20383, Start Num: 5
Candidate Starts for MCubed_26:
(2, 19901), (4, 19910), (Start: 5 @19964 has 12 MA's), (13, 20045), (16, 20075), (18, 20096), (24, 20204), (26, 20243), (28, 20249), (30, 20279), (35, 20339),

Gene: MaeLinda_27 Start: 19897, Stop: 20307, Start Num: 7
Candidate Starts for MaeLinda_27:
(Start: 7 @19897 has 58 MA's), (12, 19939), (19, 20017), (23, 20110),

Gene: Martin_28 Start: 19897, Stop: 20307, Start Num: 7
Candidate Starts for Martin_28:
(Start: 7 @19897 has 58 MA's), (12, 19939), (19, 20017), (23, 20110),

Gene: McGalleon_28 Start: 20783, Stop: 21193, Start Num: 7

Candidate Starts for McGalleon_28:

(Start: 7 @20783 has 58 MA's), (14, 20861), (19, 20903), (31, 21098), (33, 21131), (34, 21137),

Gene: MillyPhilly_27 Start: 19894, Stop: 20304, Start Num: 7

Candidate Starts for MillyPhilly_27:

(Start: 7 @19894 has 58 MA's), (12, 19936), (19, 20014), (23, 20107),

Gene: MonChoix_26 Start: 19858, Stop: 20268, Start Num: 7

Candidate Starts for MonChoix_26:

(Start: 7 @19858 has 58 MA's), (11, 19873), (12, 19900),

Gene: MrWorldwide_27 Start: 19898, Stop: 20308, Start Num: 7

Candidate Starts for MrWorldwide_27:

(Start: 7 @19898 has 58 MA's), (12, 19940), (19, 20018), (23, 20111),

Gene: Nagem_27 Start: 19891, Stop: 20301, Start Num: 7

Candidate Starts for Nagem_27:

(Start: 7 @19891 has 58 MA's), (12, 19933), (19, 20011), (23, 20104),

Gene: NickSell_28 Start: 19897, Stop: 20307, Start Num: 7

Candidate Starts for NickSell_28:

(Start: 7 @19897 has 58 MA's), (12, 19939), (19, 20017), (23, 20110),

Gene: OldNelly_27 Start: 19897, Stop: 20307, Start Num: 7

Candidate Starts for OldNelly_27:

(Start: 7 @19897 has 58 MA's), (12, 19939), (19, 20017), (23, 20110),

Gene: Oxtober96_27 Start: 19895, Stop: 20305, Start Num: 7

Candidate Starts for Oxtober96_27:

(Start: 7 @19895 has 58 MA's), (12, 19937), (19, 20015), (23, 20108),

Gene: Pajaza_26 Start: 20263, Stop: 20694, Start Num: 9

Candidate Starts for Pajaza_26:

(Start: 9 @20263 has 3 MA's), (12, 20296), (22, 20428), (23, 20467), (32, 20581), (36, 20644),

Gene: ParleG_27 Start: 19898, Stop: 20308, Start Num: 7

Candidate Starts for ParleG_27:

(Start: 7 @19898 has 58 MA's), (12, 19940), (19, 20018), (23, 20111),

Gene: Peep_27 Start: 19883, Stop: 20293, Start Num: 7

Candidate Starts for Peep_27:

(Start: 7 @19883 has 58 MA's), (19, 20003), (31, 20198),

Gene: Pherferi_27 Start: 19897, Stop: 20307, Start Num: 7

Candidate Starts for Pherferi_27:

(Start: 7 @19897 has 58 MA's), (12, 19939), (19, 20017), (23, 20110),

Gene: Phiderman_27 Start: 19894, Stop: 20304, Start Num: 7

Candidate Starts for Phiderman_27:

(Start: 7 @19894 has 58 MA's), (12, 19936), (19, 20014), (23, 20107),

Gene: Phireproof_27 Start: 19897, Stop: 20307, Start Num: 7

Candidate Starts for Phireproof_27:

(Start: 7 @19897 has 58 MA's), (12, 19939), (19, 20017), (23, 20110),

Gene: PhredFlintston_27 Start: 19897, Stop: 20307, Start Num: 7

Candidate Starts for PhredFlintston_27:

(Start: 7 @19897 has 58 MA's), (12, 19939), (19, 20017), (23, 20110),

Gene: Phriends_27 Start: 19897, Stop: 20307, Start Num: 7

Candidate Starts for Phriends_27:

(Start: 7 @19897 has 58 MA's), (12, 19939), (19, 20017), (23, 20110),

Gene: Pikmin_26 Start: 20263, Stop: 20694, Start Num: 9

Candidate Starts for Pikmin_26:

(Start: 9 @20263 has 3 MA's), (12, 20296), (22, 20428), (23, 20467), (32, 20581), (36, 20644),

Gene: PuppyEggo_27 Start: 19895, Stop: 20305, Start Num: 7

Candidate Starts for PuppyEggo_27:

(Start: 7 @19895 has 58 MA's), (12, 19937), (19, 20015), (23, 20108),

Gene: Rapheph_27 Start: 19897, Stop: 20307, Start Num: 7

Candidate Starts for Rapheph_27:

(Start: 7 @19897 has 58 MA's), (12, 19939), (19, 20017), (23, 20110),

Gene: Raptor_27 Start: 19895, Stop: 20305, Start Num: 7

Candidate Starts for Raptor_27:

(Start: 7 @19895 has 58 MA's), (12, 19937), (19, 20015), (23, 20108),

Gene: Renzie_27 Start: 19883, Stop: 20293, Start Num: 7

Candidate Starts for Renzie_27:

(Start: 7 @19883 has 58 MA's), (19, 20003), (31, 20198),

Gene: Riyhil_27 Start: 19897, Stop: 20307, Start Num: 7

Candidate Starts for Riyhil_27:

(Start: 7 @19897 has 58 MA's), (12, 19939), (19, 20017), (23, 20110),

Gene: Robinson_27 Start: 19889, Stop: 20299, Start Num: 7

Candidate Starts for Robinson_27:

(Start: 7 @19889 has 58 MA's), (19, 20009), (31, 20204),

Gene: SJay_27 Start: 19892, Stop: 20302, Start Num: 7

Candidate Starts for SJay_27:

(Start: 7 @19892 has 58 MA's), (12, 19934), (19, 20012), (23, 20105),

Gene: Sansa_25 Start: 19960, Stop: 20379, Start Num: 5

Candidate Starts for Sansa_25:

(1, 19810), (2, 19897), (Start: 5 @19960 has 12 MA's), (16, 20071), (18, 20092), (24, 20200), (26, 20239), (28, 20245), (30, 20275), (35, 20335),

Gene: Saratos_26 Start: 19938, Stop: 20357, Start Num: 5

Candidate Starts for Saratos_26:

(2, 19875), (4, 19884), (Start: 5 @19938 has 12 MA's), (16, 20049), (18, 20070), (24, 20178), (26, 20217), (28, 20223), (30, 20253), (35, 20313),

Gene: ShaiHulud_27 Start: 19895, Stop: 20305, Start Num: 7

Candidate Starts for ShaiHulud_27:

(Start: 7 @19895 has 58 MA's), (12, 19937), (19, 20015), (23, 20108),

Gene: Shamu_26 Start: 19950, Stop: 20369, Start Num: 5

Candidate Starts for Shamu_26:

(2, 19887), (4, 19896), (Start: 5 @19950 has 12 MA's), (16, 20061), (18, 20082), (24, 20190), (26, 20229), (28, 20235), (30, 20265), (35, 20325),

Gene: Shee_27 Start: 19894, Stop: 20304, Start Num: 7

Candidate Starts for Shee_27:

(Start: 7 @19894 has 58 MA's), (12, 19936), (19, 20014), (23, 20107),

Gene: SoilGremlin_27 Start: 19894, Stop: 20304, Start Num: 7

Candidate Starts for SoilGremlin_27:

(Start: 7 @19894 has 58 MA's), (12, 19936), (19, 20014), (23, 20107),

Gene: Stanktossa_27 Start: 19897, Stop: 20307, Start Num: 7

Candidate Starts for Stanktossa_27:

(Start: 7 @19897 has 58 MA's), (12, 19939), (19, 20017), (23, 20110),

Gene: Strathdee_27 Start: 19896, Stop: 20306, Start Num: 7

Candidate Starts for Strathdee_27:

(Start: 7 @19896 has 58 MA's), (12, 19938), (19, 20016), (23, 20109),

Gene: Superfresh_27 Start: 19883, Stop: 20293, Start Num: 7

Candidate Starts for Superfresh_27:

(Start: 7 @19883 has 58 MA's), (19, 20003), (31, 20198),

Gene: TatarkaPM_27 Start: 19897, Stop: 20307, Start Num: 7

Candidate Starts for TatarkaPM_27:

(Start: 7 @19897 has 58 MA's), (12, 19939), (19, 20017), (23, 20110),

Gene: Teagan_27 Start: 19891, Stop: 20301, Start Num: 7

Candidate Starts for Teagan_27:

(Start: 7 @19891 has 58 MA's), (12, 19933), (19, 20011), (23, 20104),

Gene: Thompsone_27 Start: 19895, Stop: 20305, Start Num: 7

Candidate Starts for Thompsone_27:

(Start: 7 @19895 has 58 MA's), (12, 19937), (19, 20015), (23, 20108),

Gene: Thorongil_27 Start: 19895, Stop: 20305, Start Num: 7

Candidate Starts for Thorongil_27:

(Start: 7 @19895 has 58 MA's), (12, 19937), (19, 20015), (23, 20108),

Gene: TinSulphur_27 Start: 19897, Stop: 20307, Start Num: 7

Candidate Starts for TinSulphur_27:

(Start: 7 @19897 has 58 MA's), (12, 19939), (19, 20017), (23, 20110),

Gene: Velene_27 Start: 19895, Stop: 20305, Start Num: 7

Candidate Starts for Velene_27:

(Start: 7 @19895 has 58 MA's), (12, 19937), (19, 20015), (23, 20108),

Gene: Vispistious_27 Start: 19895, Stop: 20305, Start Num: 7

Candidate Starts for Vispistious_27:

(Start: 7 @19895 has 58 MA's), (12, 19937), (19, 20015), (23, 20108),

Gene: WildNOut_27 Start: 19895, Stop: 20305, Start Num: 7

Candidate Starts for WildNOut_27:

(Start: 7 @19895 has 58 MA's), (12, 19937), (19, 20015), (23, 20108),

Gene: Zada_27 Start: 19876, Stop: 20286, Start Num: 7

Candidate Starts for Zada_27:

(Start: 7 @19876 has 58 MA's), (19, 19996), (31, 20191),

Gene: Zenitsu_26 Start: 19965, Stop: 20384, Start Num: 5

Candidate Starts for Zenitsu_26:

(2, 19902), (4, 19911), (Start: 5 @19965 has 12 MA's), (16, 20076), (18, 20097), (24, 20205), (26, 20244), (28, 20250), (30, 20280), (35, 20340),