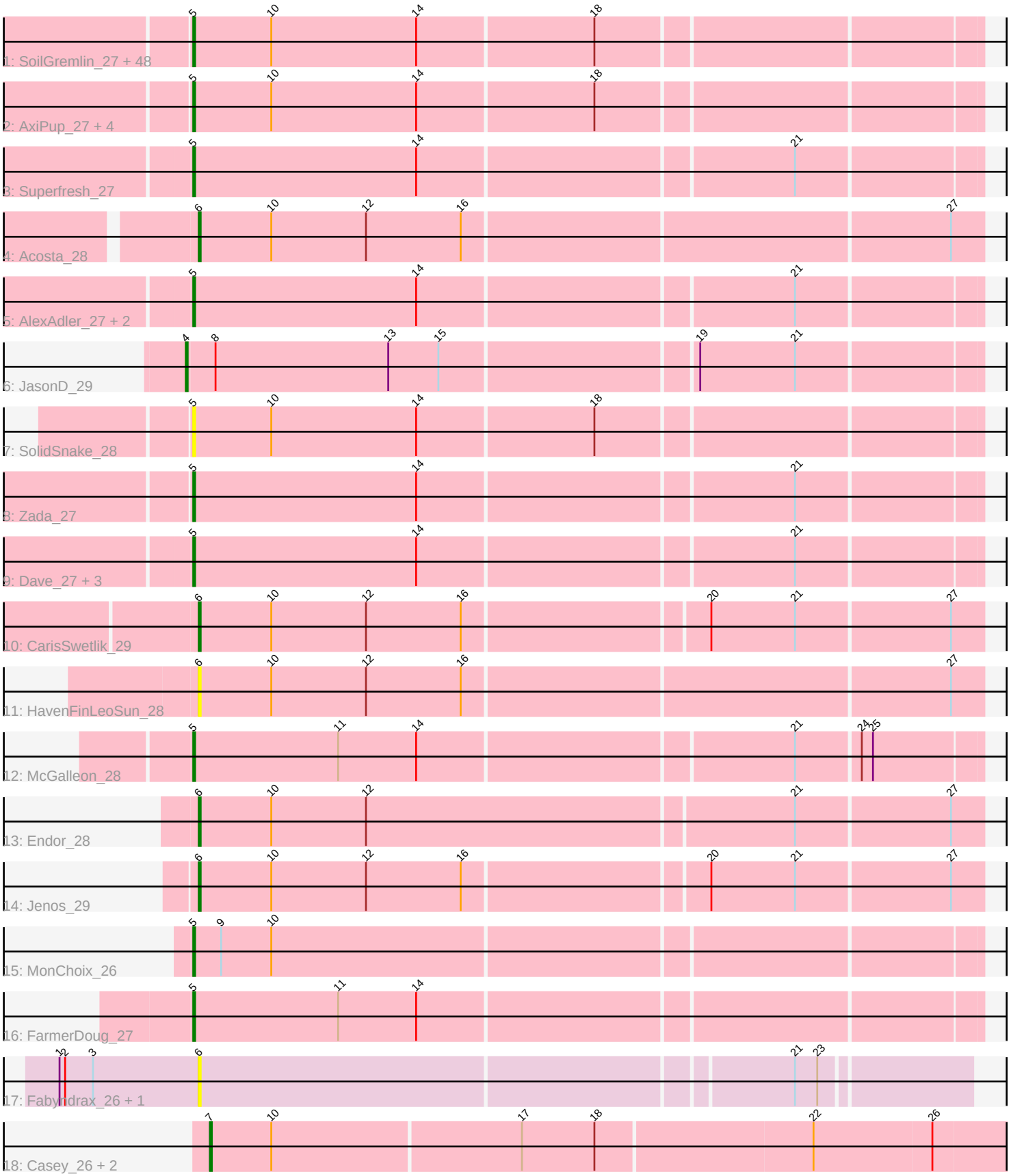
Pham 339614


1: SoilGremlin_27 + 48
2: AxiPup_27 + 4
3: Superfresh_27
4: Acosta_28
5: AlexAdler_27 + 2
6: JasonD_29
7: SolidSnake_28
8: Zada_27
9: Dave_27 + 3
10: CarisSwetlik_29
11: HavenFinLeoSun_28
12: McGalleon_28
13: Endor_28
14: Jenos_29
15: MonChoix_26
16: FarmerDoug_27
17: Fabyndrax_26 + 1
18: Casey_26 + 2

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 339614 Report

This analysis was run 11/14/26 on database version 672.

Pham number 339614 has 78 members, 5 are drafts.

Phages represented in each track:
• Track 1 : SoilGremlin_27, NickSell_27, BonesMcCoy_27, Ludgate_27, Phriends_27, GoingMerry_27, Teagan_27, Dothraki_27, Martin_28, MillyPhilly_27, Convict_27, Shee_27, Lovelyunicorn_27, Riyhil_27, Byron23_27, Alyxandracam_27, Gargoyle_27, Kurt1_27, Bandik_27, Phireproof_27, Oxtober96_27, Delphidian_27, Strathdee_27, OldNelly_27, TatarkaPM_27, Nagem_27, Merida02_28, Blage_27, Greys_27, SJay_27, BeautPeep30_27, BigRedClifford_27, Den3_27, Pherferi_27, Ioannes_27, ParleG_27, Rapheph_27, PhredFlintston_27, MaeLinda_27, Knox_27, WildNOut_27, TinSulphur_27, Velene_27, Inventa_27, Stanktossa_27, Thompsone_27, Phiderman_27, Raptor_27, MrWorldwide_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 : JasonD_29
• Track 7 : SolidSnake_28
• Track 8 : Zada_27
• Track 9 : Dave_27, Renzie_27, Antoinette_27, Peep_27
• Track 10 : CarisSwetlik_29
• Track 11 : HavenFinLeoSun_28
• Track 12 : McGalleon_28
• Track 13 : Endor_28
• Track 14 : Jenos_29
• Track 15 : MonChoix_26
• Track 16 : FarmerDoug_27
• Track 17 : Fabyndrax_26, Cidela_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 5, it was called in 65 of the 73 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_27, Den3_27, Dothraki_27, FarmerDoug_27, Figueroism_27, Gargoyle_27, GoingMerry_27, Greys_27, Inventa_27, Ioannes_27, Knox_27, Kurt1_27, Lovelyunicorn_27, Ludgate_27, MaeLinda_27, Martin_28, McGalleon_28, Merida02_28, MillyPhilly_27, MonChoix_26, MrWorldwide_27, Nagem_27, NickSell_27, OldNelly_27, Oxtober96_27, ParleG_27, Peep_27, Pherferi_27, Phiderman_27, Phireproof_27, PhredFlintston_27, Phriends_27, PuppyEggo_27, Rapheph_27, Raptor_27, Renzie_27, Riyhil_27, Robinson_27, SJay_27, ShaiHulud_27, Shee_27, SoilGremlin_27, SolidSnake_28, 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, CarisSwetlik_29, Casey_26, Cidela_26, Endor_28, Fabyndrax_26, HavenFinLeoSun_28, JasonD_29, Jenos_29, Pajaza_26, Pikmin_26,

Summary by start number:

Start 4:
• Found in 1 of 78 (1.3%) of genes in pham
• Manual Annotations of this start: 1 of 73
• Called 100.0% of time when present
• Phage (with cluster) where this start called: JasonD_29 (EA1),

Start 5:
• Found in 67 of 78 (85.9%) of genes in pham
• Manual Annotations of this start: 65 of 73
• 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_27 (EA1), Den3_27 (EA1), Dothraki_27 (EA1), FarmerDoug_27 (EA1), Figueroism_27 (EA1), Gargoyle_27 (EA1), GoingMerry_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), Merida02_28 (EA1), MillyPhilly_27 (EA1), MonChoix_26 (EA1), MrWorldwide_27 (EA1), Nagem_27 (EA1), NickSell_27 (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), Rapheph_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), SolidSnake_28 (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 6:
• Found in 7 of 78 (9.0%) of genes in pham

• Manual Annotations of this start: 4 of 73
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Acosta_28 (EA1), CarisSwetlik_29 (EA1), Cidela_26 (EA10), Endor_28 (EA1), Fabyndrax_26 (EA10), HavenFinLeoSun_28 (EA1), Jenos_29 (EA1),

Start 7:
• Found in 3 of 78 (3.8%) of genes in pham
• Manual Annotations of this start: 3 of 73
• 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 3 clusters represented in this pham: EA1, EA3, EA10,

Info for manual annotations of cluster EA1:
•Start number 4 was manually annotated 1 time for cluster EA1.
•Start number 5 was manually annotated 65 times for cluster EA1.
•Start number 6 was manually annotated 4 times for cluster EA1.

Info for manual annotations of cluster EA3:
•Start number 7 was manually annotated 3 times for cluster EA3.

Gene Information:

Gene: Acosta_28 Start: 20180, Stop: 20593, Start Num: 6
Candidate Starts for Acosta_28:
(Start: 6 @20180 has 4 MA's), (10, 20219), (12, 20270), (16, 20321), (27, 20576),

Gene: AlexAdler_27 Start: 19886, Stop: 20296, Start Num: 5
Candidate Starts for AlexAdler_27:
(Start: 5 @19886 has 65 MA's), (14, 20006), (21, 20201),

Gene: Alyxandracam_27 Start: 19895, Stop: 20305, Start Num: 5
Candidate Starts for Alyxandracam_27:
(Start: 5 @19895 has 65 MA's), (10, 19937), (14, 20015), (18, 20108),

Gene: Antoinette_27 Start: 19883, Stop: 20293, Start Num: 5
Candidate Starts for Antoinette_27:
(Start: 5 @19883 has 65 MA's), (14, 20003), (21, 20198),

Gene: AxiPup_27 Start: 19895, Stop: 20305, Start Num: 5
Candidate Starts for AxiPup_27:
(Start: 5 @19895 has 65 MA's), (10, 19937), (14, 20015), (18, 20108),

Gene: Bandik_27 Start: 19891, Stop: 20301, Start Num: 5
Candidate Starts for Bandik_27:
(Start: 5 @19891 has 65 MA's), (10, 19933), (14, 20011), (18, 20104),

Gene: BeautPeep30_27 Start: 19897, Stop: 20307, Start Num: 5
Candidate Starts for BeautPeep30_27:
(Start: 5 @19897 has 65 MA's), (10, 19939), (14, 20017), (18, 20110),

Gene: BigRedClifford_27 Start: 19895, Stop: 20305, Start Num: 5
Candidate Starts for BigRedClifford_27:
(Start: 5 @19895 has 65 MA's), (10, 19937), (14, 20015), (18, 20108),

Gene: Blage_27 Start: 19895, Stop: 20305, Start Num: 5
Candidate Starts for Blage_27:
(Start: 5 @19895 has 65 MA's), (10, 19937), (14, 20015), (18, 20108),

Gene: BonesMcCoy_27 Start: 19895, Stop: 20305, Start Num: 5
Candidate Starts for BonesMcCoy_27:
(Start: 5 @19895 has 65 MA's), (10, 19937), (14, 20015), (18, 20108),

Gene: Byron23_27 Start: 19900, Stop: 20310, Start Num: 5
Candidate Starts for Byron23_27:
(Start: 5 @19900 has 65 MA's), (10, 19942), (14, 20020), (18, 20113),

Gene: CarisSwetlik_29 Start: 20680, Stop: 21090, Start Num: 6
Candidate Starts for CarisSwetlik_29:
(Start: 6 @20680 has 4 MA's), (10, 20719), (12, 20770), (16, 20821), (20, 20947), (21, 20992), (27, 21073),

Gene: Casey_26 Start: 20263, Stop: 20694, Start Num: 7
Candidate Starts for Casey_26:
(Start: 7 @20263 has 3 MA's), (10, 20296), (17, 20428), (18, 20467), (22, 20581), (26, 20644),

Gene: Cidela_26 Start: 20783, Stop: 21181, Start Num: 6
Candidate Starts for Cidela_26:
(1, 20708), (2, 20711), (3, 20726), (Start: 6 @20783 has 4 MA's), (21, 21092), (23, 21104),

Gene: Convict_27 Start: 19895, Stop: 20305, Start Num: 5
Candidate Starts for Convict_27:
(Start: 5 @19895 has 65 MA's), (10, 19937), (14, 20015), (18, 20108),

Gene: Dave_27 Start: 19883, Stop: 20293, Start Num: 5
Candidate Starts for Dave_27:
(Start: 5 @19883 has 65 MA's), (14, 20003), (21, 20198),

Gene: Delphidian_27 Start: 19894, Stop: 20304, Start Num: 5
Candidate Starts for Delphidian_27:
(Start: 5 @19894 has 65 MA's), (10, 19936), (14, 20014), (18, 20107),

Gene: Den3_27 Start: 19899, Stop: 20309, Start Num: 5
Candidate Starts for Den3_27:
(Start: 5 @19899 has 65 MA's), (10, 19941), (14, 20019), (18, 20112),

Gene: Dothraki_27 Start: 19897, Stop: 20307, Start Num: 5
Candidate Starts for Dothraki_27:
(Start: 5 @19897 has 65 MA's), (10, 19939), (14, 20017), (18, 20110),

Gene: Endor_28 Start: 20303, Stop: 20716, Start Num: 6
Candidate Starts for Endor_28:
(Start: 6 @20303 has 4 MA's), (10, 20342), (12, 20393), (21, 20618), (27, 20699),

Gene: Fabyndrax_26 Start: 20783, Stop: 21181, Start Num: 6
Candidate Starts for Fabyndrax_26:
(1, 20708), (2, 20711), (3, 20726), (Start: 6 @20783 has 4 MA's), (21, 21092), (23, 21104),

Gene: FarmerDoug_27 Start: 19924, Stop: 20334, Start Num: 5
Candidate Starts for FarmerDoug_27:
(Start: 5 @19924 has 65 MA's), (11, 20002), (14, 20044),

Gene: Figueroism_27 Start: 19882, Stop: 20292, Start Num: 5
Candidate Starts for Figueroism_27:
(Start: 5 @19882 has 65 MA's), (14, 20002), (21, 20197),

Gene: Gargoyle_27 Start: 19897, Stop: 20307, Start Num: 5
Candidate Starts for Gargoyle_27:
(Start: 5 @19897 has 65 MA's), (10, 19939), (14, 20017), (18, 20110),

Gene: GoingMerry_27 Start: 19905, Stop: 20315, Start Num: 5
Candidate Starts for GoingMerry_27:
(Start: 5 @19905 has 65 MA's), (10, 19947), (14, 20025), (18, 20118),

Gene: Greys_27 Start: 19892, Stop: 20302, Start Num: 5
Candidate Starts for Greys_27:
(Start: 5 @19892 has 65 MA's), (10, 19934), (14, 20012), (18, 20105),

Gene: HavenFinLeoSun_28 Start: 20162, Stop: 20575, Start Num: 6
Candidate Starts for HavenFinLeoSun_28:
(Start: 6 @20162 has 4 MA's), (10, 20201), (12, 20252), (16, 20303), (27, 20558),

Gene: Inventa_27 Start: 19897, Stop: 20307, Start Num: 5
Candidate Starts for Inventa_27:
(Start: 5 @19897 has 65 MA's), (10, 19939), (14, 20017), (18, 20110),

Gene: Ioannes_27 Start: 19895, Stop: 20305, Start Num: 5
Candidate Starts for Ioannes_27:
(Start: 5 @19895 has 65 MA's), (10, 19937), (14, 20015), (18, 20108),

Gene: JasonD_29 Start: 20345, Stop: 20758, Start Num: 4
Candidate Starts for JasonD_29:
(Start: 4 @20345 has 1 MA's), (8, 20360), (13, 20453), (15, 20480), (19, 20612), (21, 20663),

Gene: Jenos_29 Start: 20622, Stop: 21032, Start Num: 6
Candidate Starts for Jenos_29:
(Start: 6 @20622 has 4 MA's), (10, 20661), (12, 20712), (16, 20763), (20, 20889), (21, 20934), (27, 21015),

Gene: Knox_27 Start: 19895, Stop: 20305, Start Num: 5
Candidate Starts for Knox_27:
(Start: 5 @19895 has 65 MA's), (10, 19937), (14, 20015), (18, 20108),

Gene: Kurt1_27 Start: 19897, Stop: 20307, Start Num: 5
Candidate Starts for Kurt1_27:
(Start: 5 @19897 has 65 MA's), (10, 19939), (14, 20017), (18, 20110),

Gene: Lovelyunicorn_27 Start: 19895, Stop: 20305, Start Num: 5
Candidate Starts for Lovelyunicorn_27:
(Start: 5 @19895 has 65 MA's), (10, 19937), (14, 20015), (18, 20108),

Gene: Ludgate_27 Start: 19891, Stop: 20301, Start Num: 5
Candidate Starts for Ludgate_27:
(Start: 5 @19891 has 65 MA's), (10, 19933), (14, 20011), (18, 20104),

Gene: MaeLinda_27 Start: 19897, Stop: 20307, Start Num: 5
Candidate Starts for MaeLinda_27:
(Start: 5 @19897 has 65 MA's), (10, 19939), (14, 20017), (18, 20110),

Gene: Martin_28 Start: 19897, Stop: 20307, Start Num: 5
Candidate Starts for Martin_28:
(Start: 5 @19897 has 65 MA's), (10, 19939), (14, 20017), (18, 20110),

Gene: McGalleon_28 Start: 20783, Stop: 21193, Start Num: 5
Candidate Starts for McGalleon_28:
(Start: 5 @20783 has 65 MA's), (11, 20861), (14, 20903), (21, 21098), (24, 21131), (25, 21137),

Gene: Merida02_28 Start: 19894, Stop: 20304, Start Num: 5
Candidate Starts for Merida02_28:
(Start: 5 @19894 has 65 MA's), (10, 19936), (14, 20014), (18, 20107),

Gene: MillyPhilly_27 Start: 19894, Stop: 20304, Start Num: 5
Candidate Starts for MillyPhilly_27:
(Start: 5 @19894 has 65 MA's), (10, 19936), (14, 20014), (18, 20107),

Gene: MonChoix_26 Start: 19858, Stop: 20268, Start Num: 5
Candidate Starts for MonChoix_26:
(Start: 5 @19858 has 65 MA's), (9, 19873), (10, 19900),

Gene: MrWorldwide_27 Start: 19898, Stop: 20308, Start Num: 5
Candidate Starts for MrWorldwide_27:
(Start: 5 @19898 has 65 MA's), (10, 19940), (14, 20018), (18, 20111),

Gene: Nagem_27 Start: 19891, Stop: 20301, Start Num: 5
Candidate Starts for Nagem_27:
(Start: 5 @19891 has 65 MA's), (10, 19933), (14, 20011), (18, 20104),

Gene: NickSell_27 Start: 19897, Stop: 20307, Start Num: 5
Candidate Starts for NickSell_27:
(Start: 5 @19897 has 65 MA's), (10, 19939), (14, 20017), (18, 20110),

Gene: OldNelly_27 Start: 19897, Stop: 20307, Start Num: 5
Candidate Starts for OldNelly_27:
(Start: 5 @19897 has 65 MA's), (10, 19939), (14, 20017), (18, 20110),

Gene: Oxtober96_27 Start: 19895, Stop: 20305, Start Num: 5
Candidate Starts for Oxtober96_27:
(Start: 5 @19895 has 65 MA's), (10, 19937), (14, 20015), (18, 20108),

Gene: Pajaza_26 Start: 20263, Stop: 20694, Start Num: 7
Candidate Starts for Pajaza_26:
(Start: 7 @20263 has 3 MA's), (10, 20296), (17, 20428), (18, 20467), (22, 20581), (26, 20644),

Gene: ParleG_27 Start: 19898, Stop: 20308, Start Num: 5
Candidate Starts for ParleG_27:
(Start: 5 @19898 has 65 MA's), (10, 19940), (14, 20018), (18, 20111),

Gene: Peep_27 Start: 19883, Stop: 20293, Start Num: 5
Candidate Starts for Peep_27:
(Start: 5 @19883 has 65 MA's), (14, 20003), (21, 20198),

Gene: Pherferi_27 Start: 19897, Stop: 20307, Start Num: 5
Candidate Starts for Pherferi_27:
(Start: 5 @19897 has 65 MA's), (10, 19939), (14, 20017), (18, 20110),

Gene: Phiderman_27 Start: 19894, Stop: 20304, Start Num: 5
Candidate Starts for Phiderman_27:
(Start: 5 @19894 has 65 MA's), (10, 19936), (14, 20014), (18, 20107),

Gene: Phireproof_27 Start: 19897, Stop: 20307, Start Num: 5
Candidate Starts for Phireproof_27:
(Start: 5 @19897 has 65 MA's), (10, 19939), (14, 20017), (18, 20110),

Gene: PhredFlintston_27 Start: 19897, Stop: 20307, Start Num: 5
Candidate Starts for PhredFlintston_27:
(Start: 5 @19897 has 65 MA's), (10, 19939), (14, 20017), (18, 20110),

Gene: Phriends_27 Start: 19897, Stop: 20307, Start Num: 5
Candidate Starts for Phriends_27:
(Start: 5 @19897 has 65 MA's), (10, 19939), (14, 20017), (18, 20110),

Gene: Pikmin_26 Start: 20263, Stop: 20694, Start Num: 7
Candidate Starts for Pikmin_26:
(Start: 7 @20263 has 3 MA's), (10, 20296), (17, 20428), (18, 20467), (22, 20581), (26, 20644),

Gene: PuppyEggo_27 Start: 19895, Stop: 20305, Start Num: 5
Candidate Starts for PuppyEggo_27:
(Start: 5 @19895 has 65 MA's), (10, 19937), (14, 20015), (18, 20108),

Gene: Rapheph_27 Start: 19897, Stop: 20307, Start Num: 5
Candidate Starts for Rapheph_27:
(Start: 5 @19897 has 65 MA's), (10, 19939), (14, 20017), (18, 20110),

Gene: Raptor_27 Start: 19895, Stop: 20305, Start Num: 5
Candidate Starts for Raptor_27:
(Start: 5 @19895 has 65 MA's), (10, 19937), (14, 20015), (18, 20108),

Gene: Renzie_27 Start: 19883, Stop: 20293, Start Num: 5

Candidate Starts for Renzie_27:
(Start: 5 @19883 has 65 MA's), (14, 20003), (21, 20198),

Gene: Riyhil_27 Start: 19897, Stop: 20307, Start Num: 5
Candidate Starts for Riyhil_27:
(Start: 5 @19897 has 65 MA's), (10, 19939), (14, 20017), (18, 20110),

Gene: Robinson_27 Start: 19889, Stop: 20299, Start Num: 5
Candidate Starts for Robinson_27:
(Start: 5 @19889 has 65 MA's), (14, 20009), (21, 20204),

Gene: SJay_27 Start: 19892, Stop: 20302, Start Num: 5
Candidate Starts for SJay_27:
(Start: 5 @19892 has 65 MA's), (10, 19934), (14, 20012), (18, 20105),

Gene: ShaiHulud_27 Start: 19895, Stop: 20305, Start Num: 5
Candidate Starts for ShaiHulud_27:
(Start: 5 @19895 has 65 MA's), (10, 19937), (14, 20015), (18, 20108),

Gene: Shee_27 Start: 19894, Stop: 20304, Start Num: 5
Candidate Starts for Shee_27:
(Start: 5 @19894 has 65 MA's), (10, 19936), (14, 20014), (18, 20107),

Gene: SoilGremlin_27 Start: 19894, Stop: 20304, Start Num: 5
Candidate Starts for SoilGremlin_27:
(Start: 5 @19894 has 65 MA's), (10, 19936), (14, 20014), (18, 20107),

Gene: SolidSnake_28 Start: 19897, Stop: 20307, Start Num: 5
Candidate Starts for SolidSnake_28:
(Start: 5 @19897 has 65 MA's), (10, 19939), (14, 20017), (18, 20110),

Gene: Stanktossa_27 Start: 19897, Stop: 20307, Start Num: 5
Candidate Starts for Stanktossa_27:
(Start: 5 @19897 has 65 MA's), (10, 19939), (14, 20017), (18, 20110),

Gene: Strathdee_27 Start: 19896, Stop: 20306, Start Num: 5
Candidate Starts for Strathdee_27:
(Start: 5 @19896 has 65 MA's), (10, 19938), (14, 20016), (18, 20109),

Gene: Superfresh_27 Start: 19883, Stop: 20293, Start Num: 5
Candidate Starts for Superfresh_27:
(Start: 5 @19883 has 65 MA's), (14, 20003), (21, 20198),

Gene: TatarkaPM_27 Start: 19897, Stop: 20307, Start Num: 5
Candidate Starts for TatarkaPM_27:
(Start: 5 @19897 has 65 MA's), (10, 19939), (14, 20017), (18, 20110),

Gene: Teagan_27 Start: 19891, Stop: 20301, Start Num: 5
Candidate Starts for Teagan_27:
(Start: 5 @19891 has 65 MA's), (10, 19933), (14, 20011), (18, 20104),

Gene: Thompsone_27 Start: 19895, Stop: 20305, Start Num: 5
Candidate Starts for Thompsone_27:

(Start: 5 @19895 has 65 MA's), (10, 19937), (14, 20015), (18, 20108),

Gene: Thorongil_27 Start: 19895, Stop: 20305, Start Num: 5
Candidate Starts for Thorongil_27:
(Start: 5 @19895 has 65 MA's), (10, 19937), (14, 20015), (18, 20108),

Gene: TinSulphur_27 Start: 19897, Stop: 20307, Start Num: 5
Candidate Starts for TinSulphur_27:
(Start: 5 @19897 has 65 MA's), (10, 19939), (14, 20017), (18, 20110),

Gene: Velene_27 Start: 19895, Stop: 20305, Start Num: 5
Candidate Starts for Velene_27:
(Start: 5 @19895 has 65 MA's), (10, 19937), (14, 20015), (18, 20108),

Gene: Vispistious_27 Start: 19895, Stop: 20305, Start Num: 5
Candidate Starts for Vispistious_27:
(Start: 5 @19895 has 65 MA's), (10, 19937), (14, 20015), (18, 20108),

Gene: WildNOut_27 Start: 19895, Stop: 20305, Start Num: 5
Candidate Starts for WildNOut_27:
(Start: 5 @19895 has 65 MA's), (10, 19937), (14, 20015), (18, 20108),

Gene: Zada_27 Start: 19876, Stop: 20286, Start Num: 5
Candidate Starts for Zada_27:
(Start: 5 @19876 has 65 MA's), (14, 19996), (21, 20191),