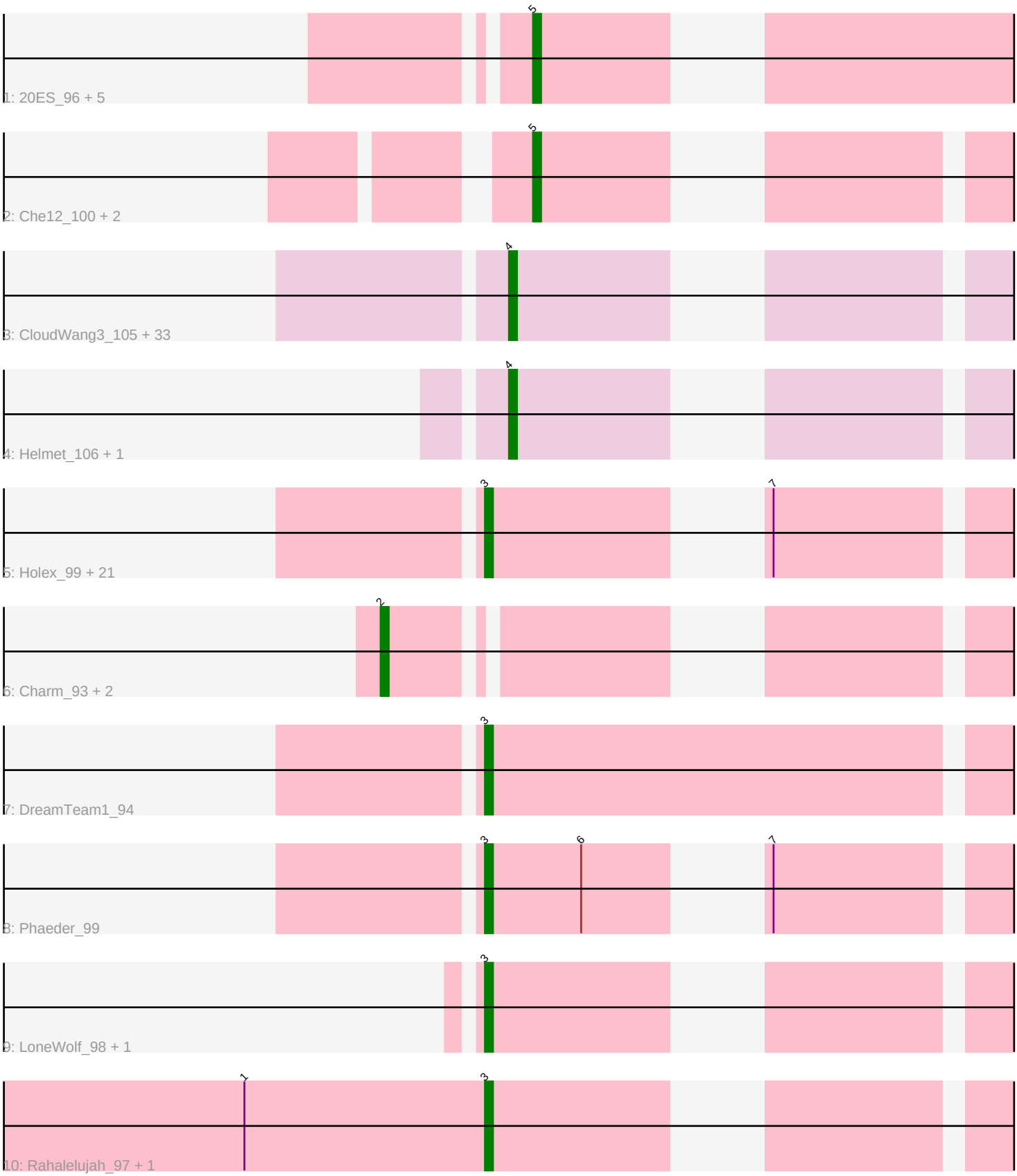
Pham 347551


5
1: 20ES_96 + 5
5
2: Che12_100 + 2
4
3: CloudWang3_105 + 33
4
4: Helmet_106 + 1
3
7
5: Holex_99 + 21
2
6: Charm_93 + 2
3
7: DreamTeam1_94
3
6
7
8: Phaeder_99
3
9: LoneWolf_98 + 1
1
3
10: Rahalelujah_97 + 1

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 347551 Report

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

Pham number 347551 has 76 members, 4 are drafts.

Phages represented in each track:
• Track 1 : 20ES_96, Gail_101, Jeeves_101, SororFago_97, CRB1_94, First_0095
• Track 2 : Che12_100, Adzzy_98, Ph8s_99
• Track 3 : CloudWang3_105, Blue7_104, Newrala_101, VohminGhazi_102, Koko_104, Hammer_103, Imbriano_102, Kazan_103, BlessJoy_103, Roksolana_105, Jeffabunny_93, Rifter_103, Cookiedough_100, DaVinci_99, EricB_99, BennyP_104, Candra_103, Wiks_102, Priamo_100, Iwokeuplikedis_97, Tucker_103, Chartreuse_101, Hoot_97, Gruunaga_103, Hexamo_104, SuperAwesome_101, McFly_101, SmellyB_102, BABullseye_95, WunderPhul_91, JewelBug_93, Isiphiwo_98, Zaka_103, Artemis2UCLA_104
• Track 4 : Helmet_106, Dorothea_101
• Track 5 : Holex_99, Phonnegut_99, Eidsmoe_96, Myxus_99, Beemo_99, Qobbit_96, EmyBug_95, Priya_96, Alma_96, RyeScarlet_99, Aliter_92, Pioneer_99, Catalina_101, HortumSL17_100, Spouty_96, Onglai_98, Tubs_99, Sachima_99, Conquerage_96, EdogawaKiddo_99, Scherzo_97, Lilleskat_99
• Track 6 : Charm_93, Klodlith_94, SheaKeira_93
• Track 7 : DreamTeam1_94
• Track 8 : Phaeder_99
• Track 9 : LoneWolf_98, Darrell_96
• Track 10 : Rahalelujah_97, Bellris_97

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

The start number called the most often in the published annotations is 4, it was called in 36 of the 72 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Artemis2UCLA_104, BABullseye_95, BennyP_104, BlessJoy_103, Blue7_104, Candra_103, Chartreuse_101, CloudWang3_105, Cookiedough_100, DaVinci_99, Dorothea_101, EricB_99, Gruunaga_103, Hammer_103, Helmet_106, Hexamo_104, Hoot_97, Imbriano_102, Isiphiwo_98, Iwokeuplikedis_97, Jeffabunny_93, JewelBug_93, Kazan_103, Koko_104, McFly_101, Newrala_101, Priamo_100, Rifter_103, Roksolana_105, SmellyB_102, SuperAwesome_101, Tucker_103, VohminGhazi_102, Wiks_102, WunderPhul_91, Zaka_103,

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

Genes that do not have the "Most Annotated" start:
• 20ES_96, Adzzy_98, Aliter_92, Alma_96, Beemo_99, Bellris_97, CRB1_94, Catalina_101, Charm_93, Che12_100, Conquerage_96, Darrell_96, DreamTeam1_94, EdogawaKiddo_99, Eidsmoe_96, EmyBug_95, First_0095, Gail_101, Holex_99, HortumSL17_100, Jeeves_101, Klodlith_94, Lilleskat_99, LoneWolf_98, Myxus_99, Onglai_98, Ph8s_99, Phaeder_99, Phonnegut_99, Pioneer_99, Priya_96, Qobbit_96, Rahalelujah_97, RyeScarlet_99, Sachima_99, Scherzo_97, SheaKeira_93, SororFago_97, Spouty_96, Tubs_99,

Summary by start number:

Start 2:
• Found in 3 of 76 (3.9%) of genes in pham
• Manual Annotations of this start: 2 of 72
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Charm_93 (A9), Klodlith_94 (A9), SheaKeira_93 (A9),

Start 3:
• Found in 28 of 76 (36.8%) of genes in pham
• Manual Annotations of this start: 28 of 72
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Aliter_92 (A9), Alma_96 (A9), Beemo_99 (A9), Bellris_97 (A9), Catalina_101 (A9), Conquerage_96 (A9), Darrell_96 (A9), DreamTeam1_94 (A9), EdogawaKiddo_99 (A9), Eidsmoe_96 (A9), EmyBug_95 (A9), Holex_99 (A9), HortumSL17_100 (A9), Lilleskat_99 (A9), LoneWolf_98 (A9), Myxus_99 (A9), Onglai_98 (A9), Phaeder_99 (A9), Phonnegut_99 (A9), Pioneer_99 (A9), Priya_96 (A9), Qobbit_96 (A9), Rahalelujah_97 (A9), RyeScarlet_99 (A9), Sachima_99 (A9), Scherzo_97 (A9), Spouty_96 (A9), Tubs_99 (A9),

Start 4:
• Found in 36 of 76 (47.4%) of genes in pham
• Manual Annotations of this start: 36 of 72
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Artemis2UCLA_104 (A6), BABullseye_95 (A6), BennyP_104 (A6), BlessJoy_103 (A6), Blue7_104 (A6), Candra_103 (A6), Chartreuse_101 (A6), CloudWang3_105 (A6), Cookiedough_100 (A6), DaVinci_99 (A6), Dorothea_101 (A6), EricB_99 (A6), Gruunaga_103 (A6), Hammer_103 (A6), Helmet_106 (A6), Hexamo_104 (A6), Hoot_97 (A6), Imbriano_102 (A6), Isiphiwo_98 (A6), Iwokeuplikedis_97 (A2), Jeffabunny_93 (A6), JewelBug_93 (A6), Kazan_103 (A6), Koko_104 (A6), McFly_101 (A6), Newrala_101 (A6), Priamo_100 (A6), Rifter_103 (A6), Roksolana_105 (A6), SmellyB_102 (A6), SuperAwesome_101 (A6), Tucker_103 (A6), VohminGhazi_102 (A6), Wiks_102 (A6), WunderPhul_91 (A6), Zaka_103 (A6),

Start 5:
• Found in 9 of 76 (11.8%) of genes in pham
• Manual Annotations of this start: 6 of 72
• Called 100.0% of time when present

• Phage (with cluster) where this start called: 20ES_96 (A2), Adzzy_98 (A2), CRB1_94 (A2), Che12_100 (A2), First_0095 (A2), Gail_101 (A14), Jeeves_101 (A14), Ph8s_99 (A2), SororFago_97 (A14),

Summary by clusters:

There are 4 clusters represented in this pham: A9, A14, A2, A6,

Info for manual annotations of cluster A14:
•Start number 5 was manually annotated 3 times for cluster A14.

Info for manual annotations of cluster A2:
•Start number 4 was manually annotated 1 time for cluster A2.
•Start number 5 was manually annotated 3 times for cluster A2.

Info for manual annotations of cluster A6:
•Start number 4 was manually annotated 35 times for cluster A6.

Info for manual annotations of cluster A9:
•Start number 2 was manually annotated 2 times for cluster A9.
•Start number 3 was manually annotated 28 times for cluster A9.

Gene Information:

Gene: 20ES_96 Start: 51549, Stop: 51469, Start Num: 5
Candidate Starts for 20ES_96:
(Start: 5 @51549 has 6 MA's),

Gene: Adzzy_98 Start: 50880, Stop: 50794, Start Num: 5
Candidate Starts for Adzzy_98:
(Start: 5 @50880 has 6 MA's),

Gene: Aliter_92 Start: 48676, Stop: 48593, Start Num: 3
Candidate Starts for Aliter_92:
(Start: 3 @48676 has 28 MA's), (7, 48652),

Gene: Alma_96 Start: 51386, Stop: 51303, Start Num: 3
Candidate Starts for Alma_96:
(Start: 3 @51386 has 28 MA's), (7, 51362),

Gene: Artemis2UCLA_104 Start: 50753, Stop: 50673, Start Num: 4
Candidate Starts for Artemis2UCLA_104:
(Start: 4 @50753 has 36 MA's),

Gene: BABullseye_95 Start: 48891, Stop: 48811, Start Num: 4
Candidate Starts for BABullseye_95:
(Start: 4 @48891 has 36 MA's),

Gene: Beemo_99 Start: 51507, Stop: 51424, Start Num: 3
Candidate Starts for Beemo_99:
(Start: 3 @51507 has 28 MA's), (7, 51483),

Gene: Bellris_97 Start: 51008, Stop: 50925, Start Num: 3
Candidate Starts for Bellris_97:
(1, 51038), (Start: 3 @51008 has 28 MA's),

Gene: BennyP_104 Start: 50737, Stop: 50657, Start Num: 4
Candidate Starts for BennyP_104:
(Start: 4 @50737 has 36 MA's),

Gene: BlessJoy_103 Start: 50950, Stop: 50870, Start Num: 4
Candidate Starts for BlessJoy_103:
(Start: 4 @50950 has 36 MA's),

Gene: Blue7_104 Start: 50660, Stop: 50580, Start Num: 4
Candidate Starts for Blue7_104:
(Start: 4 @50660 has 36 MA's),

Gene: CRB1_94 Start: 51399, Stop: 51319, Start Num: 5
Candidate Starts for CRB1_94:
(Start: 5 @51399 has 6 MA's),

Gene: Candra_103 Start: 50599, Stop: 50519, Start Num: 4
Candidate Starts for Candra_103:
(Start: 4 @50599 has 36 MA's),

Gene: Catalina_101 Start: 51620, Stop: 51537, Start Num: 3
Candidate Starts for Catalina_101:
(Start: 3 @51620 has 28 MA's), (7, 51596),

Gene: Charm_93 Start: 50874, Stop: 50782, Start Num: 2
Candidate Starts for Charm_93:
(Start: 2 @50874 has 2 MA's),

Gene: Chartreuse_101 Start: 49900, Stop: 49820, Start Num: 4
Candidate Starts for Chartreuse_101:
(Start: 4 @49900 has 36 MA's),

Gene: Che12_100 Start: 51350, Stop: 51264, Start Num: 5
Candidate Starts for Che12_100:
(Start: 5 @51350 has 6 MA's),

Gene: CloudWang3_105 Start: 51282, Stop: 51202, Start Num: 4
Candidate Starts for CloudWang3_105:
(Start: 4 @51282 has 36 MA's),

Gene: Conquerage_96 Start: 51162, Stop: 51079, Start Num: 3
Candidate Starts for Conquerage_96:
(Start: 3 @51162 has 28 MA's), (7, 51138),

Gene: Cookiedough_100 Start: 50874, Stop: 50794, Start Num: 4
Candidate Starts for Cookiedough_100:
(Start: 4 @50874 has 36 MA's),

Gene: DaVinci_99 Start: 49954, Stop: 49874, Start Num: 4
Candidate Starts for DaVinci_99:
(Start: 4 @49954 has 36 MA's),

Gene: Darrell_96 Start: 50493, Stop: 50410, Start Num: 3
Candidate Starts for Darrell_96:
(Start: 3 @50493 has 28 MA's),

Gene: Dorothea_101 Start: 51054, Stop: 50974, Start Num: 4
Candidate Starts for Dorothea_101:
(Start: 4 @51054 has 36 MA's),

Gene: DreamTeam1_94 Start: 50836, Stop: 50741, Start Num: 3
Candidate Starts for DreamTeam1_94:
(Start: 3 @50836 has 28 MA's),

Gene: EdogawaKiddo_99 Start: 51583, Stop: 51500, Start Num: 3
Candidate Starts for EdogawaKiddo_99:
(Start: 3 @51583 has 28 MA's), (7, 51559),

Gene: Eidsmoe_96 Start: 51155, Stop: 51072, Start Num: 3
Candidate Starts for Eidsmoe_96:
(Start: 3 @51155 has 28 MA's), (7, 51131),

Gene: EmyBug_95 Start: 51157, Stop: 51074, Start Num: 3
Candidate Starts for EmyBug_95:
(Start: 3 @51157 has 28 MA's), (7, 51133),

Gene: EricB_99 Start: 50099, Stop: 50019, Start Num: 4
Candidate Starts for EricB_99:
(Start: 4 @50099 has 36 MA's),

Gene: First_0095 Start: 51452, Stop: 51372, Start Num: 5
Candidate Starts for First_0095:
(Start: 5 @51452 has 6 MA's),

Gene: Gail_101 Start: 51991, Stop: 51902, Start Num: 5
Candidate Starts for Gail_101:
(Start: 5 @51991 has 6 MA's),

Gene: Gruunaga_103 Start: 50567, Stop: 50487, Start Num: 4
Candidate Starts for Gruunaga_103:
(Start: 4 @50567 has 36 MA's),

Gene: Hammer_103 Start: 50264, Stop: 50184, Start Num: 4
Candidate Starts for Hammer_103:
(Start: 4 @50264 has 36 MA's),

Gene: Helmet_106 Start: 51036, Stop: 50956, Start Num: 4
Candidate Starts for Helmet_106:
(Start: 4 @51036 has 36 MA's),

Gene: Hexamo_104 Start: 50768, Stop: 50688, Start Num: 4

Candidate Starts for Hexamo_104:
(Start: 4 @50768 has 36 MA's),

Gene: Holex_99 Start: 51585, Stop: 51502, Start Num: 3
Candidate Starts for Holex_99:
(Start: 3 @51585 has 28 MA's), (7, 51561),

Gene: Hoot_97 Start: 48416, Stop: 48336, Start Num: 4
Candidate Starts for Hoot_97:
(Start: 4 @48416 has 36 MA's),

Gene: HortumSL17_100 Start: 51621, Stop: 51538, Start Num: 3
Candidate Starts for HortumSL17_100:
(Start: 3 @51621 has 28 MA's), (7, 51597),

Gene: Imbriano_102 Start: 51256, Stop: 51176, Start Num: 4
Candidate Starts for Imbriano_102:
(Start: 4 @51256 has 36 MA's),

Gene: Isiphiwo_98 Start: 50318, Stop: 50238, Start Num: 4
Candidate Starts for Isiphiwo_98:
(Start: 4 @50318 has 36 MA's),

Gene: Iwokeuplikedis_97 Start: 51725, Stop: 51645, Start Num: 4
Candidate Starts for Iwokeuplikedis_97:
(Start: 4 @51725 has 36 MA's),

Gene: Jeeves_101 Start: 50780, Stop: 50691, Start Num: 5
Candidate Starts for Jeeves_101:
(Start: 5 @50780 has 6 MA's),

Gene: Jeffabunny_93 Start: 47371, Stop: 47291, Start Num: 4
Candidate Starts for Jeffabunny_93:
(Start: 4 @47371 has 36 MA's),

Gene: JewelBug_93 Start: 48747, Stop: 48667, Start Num: 4
Candidate Starts for JewelBug_93:
(Start: 4 @48747 has 36 MA's),

Gene: Kazan_103 Start: 50569, Stop: 50489, Start Num: 4
Candidate Starts for Kazan_103:
(Start: 4 @50569 has 36 MA's),

Gene: Klodlith_94 Start: 50947, Stop: 50855, Start Num: 2
Candidate Starts for Klodlith_94:
(Start: 2 @50947 has 2 MA's),

Gene: Koko_104 Start: 51281, Stop: 51201, Start Num: 4
Candidate Starts for Koko_104:
(Start: 4 @51281 has 36 MA's),

Gene: Lilleskat_99 Start: 51573, Stop: 51490, Start Num: 3
Candidate Starts for Lilleskat_99:

(Start: 3 @51573 has 28 MA's), (7, 51549),

Gene: LoneWolf_98 Start: 51497, Stop: 51414, Start Num: 3
Candidate Starts for LoneWolf_98:
(Start: 3 @51497 has 28 MA's),

Gene: McFly_101 Start: 50908, Stop: 50828, Start Num: 4
Candidate Starts for McFly_101:
(Start: 4 @50908 has 36 MA's),

Gene: Myxus_99 Start: 51621, Stop: 51538, Start Num: 3
Candidate Starts for Myxus_99:
(Start: 3 @51621 has 28 MA's), (7, 51597),

Gene: Newrala_101 Start: 51007, Stop: 50927, Start Num: 4
Candidate Starts for Newrala_101:
(Start: 4 @51007 has 36 MA's),

Gene: Onglai_98 Start: 49774, Stop: 49691, Start Num: 3
Candidate Starts for Onglai_98:
(Start: 3 @49774 has 28 MA's), (7, 49750),

Gene: Ph8s_99 Start: 51211, Stop: 51125, Start Num: 5
Candidate Starts for Ph8s_99:
(Start: 5 @51211 has 6 MA's),

Gene: Phaeder_99 Start: 51496, Stop: 51413, Start Num: 3
Candidate Starts for Phaeder_99:
(Start: 3 @51496 has 28 MA's), (6, 51484), (7, 51472),

Gene: Phonnegut_99 Start: 51506, Stop: 51423, Start Num: 3
Candidate Starts for Phonnegut_99:
(Start: 3 @51506 has 28 MA's), (7, 51482),

Gene: Pioneer_99 Start: 51506, Stop: 51423, Start Num: 3
Candidate Starts for Pioneer_99:
(Start: 3 @51506 has 28 MA's), (7, 51482),

Gene: Priamo_100 Start: 50060, Stop: 49980, Start Num: 4
Candidate Starts for Priamo_100:
(Start: 4 @50060 has 36 MA's),

Gene: Priya_96 Start: 51158, Stop: 51075, Start Num: 3
Candidate Starts for Priya_96:
(Start: 3 @51158 has 28 MA's), (7, 51134),

Gene: Qobbit_96 Start: 51120, Stop: 51037, Start Num: 3
Candidate Starts for Qobbit_96:
(Start: 3 @51120 has 28 MA's), (7, 51096),

Gene: Rahalelujah_97 Start: 51017, Stop: 50934, Start Num: 3
Candidate Starts for Rahalelujah_97:
(1, 51047), (Start: 3 @51017 has 28 MA's),

Gene: Rifter_103 Start: 50059, Stop: 49979, Start Num: 4
Candidate Starts for Rifter_103:
(Start: 4 @50059 has 36 MA's),

Gene: Roksolana_105 Start: 51111, Stop: 51031, Start Num: 4
Candidate Starts for Roksolana_105:
(Start: 4 @51111 has 36 MA's),

Gene: RyeScarlet_99 Start: 51492, Stop: 51409, Start Num: 3
Candidate Starts for RyeScarlet_99:
(Start: 3 @51492 has 28 MA's), (7, 51468),

Gene: Sachima_99 Start: 51520, Stop: 51437, Start Num: 3
Candidate Starts for Sachima_99:
(Start: 3 @51520 has 28 MA's), (7, 51496),

Gene: Scherzo_97 Start: 51537, Stop: 51454, Start Num: 3
Candidate Starts for Scherzo_97:
(Start: 3 @51537 has 28 MA's), (7, 51513),

Gene: SheaKeira_93 Start: 50757, Stop: 50665, Start Num: 2
Candidate Starts for SheaKeira_93:
(Start: 2 @50757 has 2 MA's),

Gene: SmellyB_102 Start: 50563, Stop: 50483, Start Num: 4
Candidate Starts for SmellyB_102:
(Start: 4 @50563 has 36 MA's),

Gene: SororFago_97 Start: 51754, Stop: 51665, Start Num: 5
Candidate Starts for SororFago_97:
(Start: 5 @51754 has 6 MA's),

Gene: Spouty_96 Start: 51157, Stop: 51074, Start Num: 3
Candidate Starts for Spouty_96:
(Start: 3 @51157 has 28 MA's), (7, 51133),

Gene: SuperAwesome_101 Start: 51056, Stop: 50976, Start Num: 4
Candidate Starts for SuperAwesome_101:
(Start: 4 @51056 has 36 MA's),

Gene: Tubs_99 Start: 51496, Stop: 51413, Start Num: 3
Candidate Starts for Tubs_99:
(Start: 3 @51496 has 28 MA's), (7, 51472),

Gene: Tucker_103 Start: 50654, Stop: 50574, Start Num: 4
Candidate Starts for Tucker_103:
(Start: 4 @50654 has 36 MA's),

Gene: VohminGhazi_102 Start: 50564, Stop: 50484, Start Num: 4
Candidate Starts for VohminGhazi_102:
(Start: 4 @50564 has 36 MA's),

Gene: Wiks_102 Start: 50531, Stop: 50451, Start Num: 4
Candidate Starts for Wiks_102:
(Start: 4 @50531 has 36 MA's),

Gene: WunderPhul_91 Start: 47133, Stop: 47053, Start Num: 4
Candidate Starts for WunderPhul_91:
(Start: 4 @47133 has 36 MA's),

Gene: Zaka_103 Start: 50531, Stop: 50451, Start Num: 4
Candidate Starts for Zaka_103:
(Start: 4 @50531 has 36 MA's),