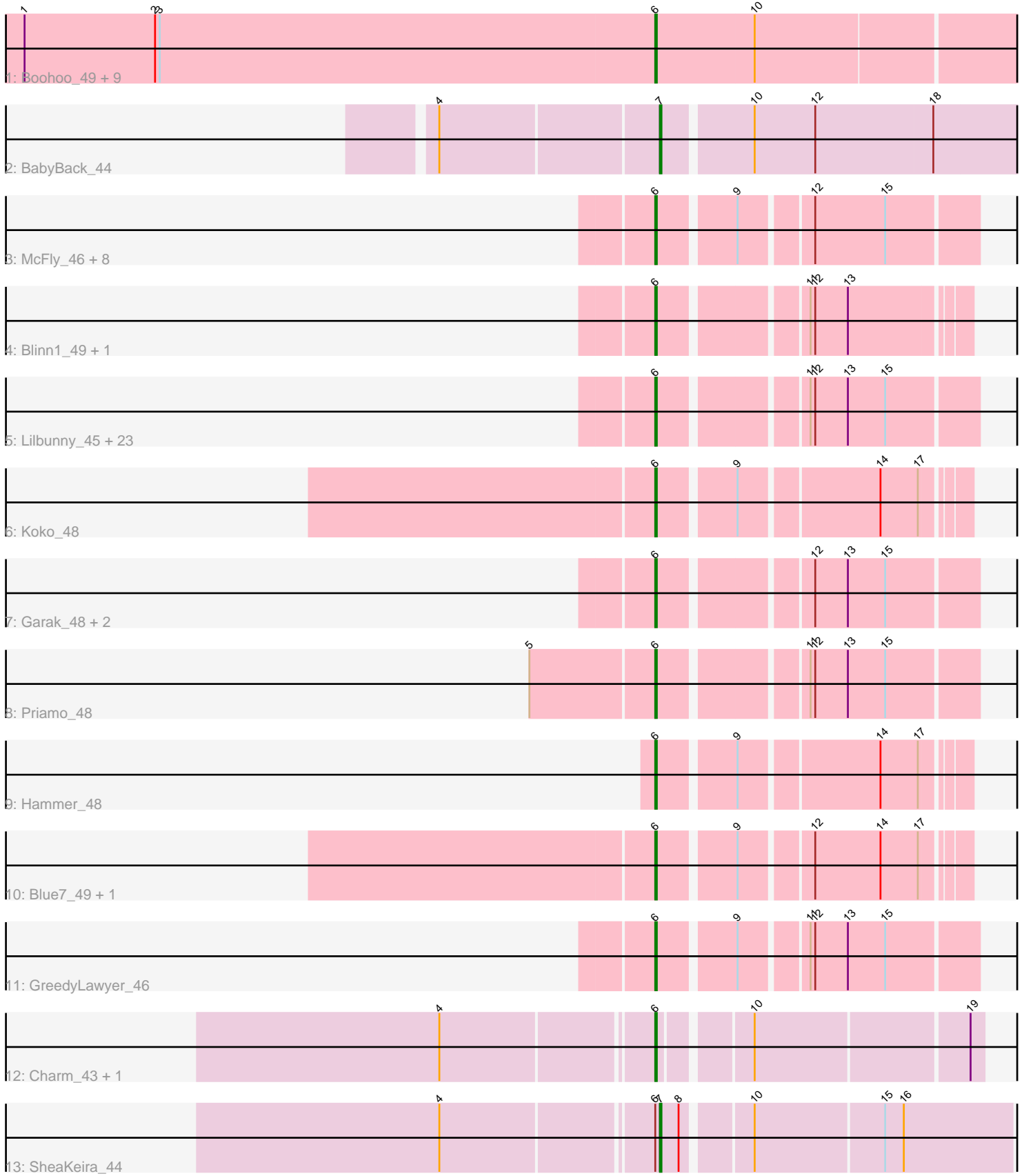


Pham 194032



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 194032 Report

This analysis was run 11/02/24 on database version 579.

Pham number 194032 has 58 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Boohoo_49, Soups_49, DekHockey33_49, KatherineG_50, ShayRa_50, Anaysia_49, LastResort_48, Looper_49, ReMo_48, Nebulosus_48
- Track 2 : BabyBack_44
- Track 3 : McFly_46, SmellyB_46, EricB_46, Dorothea_46, Kazan_47, Hoot_46, VohminGhazi_46, Candra_46, Kipper29_46
- Track 4 : Blinn1_49, BABullseye_44
- Track 5 : Lilbunny_45, Zaka_46, Artemis2UCLA_46, ToneTone_43, Isiphiwo_44, Tucker_47, Roksolana_47, DaVinci_46, Wiks_45, Chartreuse_46, Pmask_46, Hexamo_46, CloudWang3_46, Yokurt_46, WunderPhul_46, Jeffabunny_46, Neeharika16_46, JewelBug_48, Jordennis_46, SuperAwesome_46, Zulu_47, Cookiedough_46, Newrala_46, Gruunaga_46
- Track 6 : Koko_48
- Track 7 : Garak_48, Indra_49, Helmet_48
- Track 8 : Priamo_48
- Track 9 : Hammer_48
- Track 10 : Blue7_49, Rifter_48
- Track 11 : GreedyLawyer_46
- Track 12 : Charm_43, DreamTeam1_43
- Track 13 : SheaKeira_44

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

The start number called the most often in the published annotations is 6, it was called in 52 of the 54 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Anaysia_49, Artemis2UCLA_46, BABullseye_44, Blinn1_49, Blue7_49, Boohoo_49, Candra_46, Charm_43, Chartreuse_46, CloudWang3_46, Cookiedough_46, DaVinci_46, DekHockey33_49, Dorothea_46, DreamTeam1_43, EricB_46, Garak_48, GreedyLawyer_46, Gruunaga_46, Hammer_48, Helmet_48, Hexamo_46, Hoot_46, Indra_49, Isiphiwo_44, Jeffabunny_46, JewelBug_48, Jordennis_46, KatherineG_50, Kazan_47, Kipper29_46, Koko_48, LastResort_48, Lilbunny_45, Looper_49, McFly_46, Nebulosus_48, Neeharika16_46, Newrala_46, Pmask_46, Priamo_48, ReMo_48, Rifter_48, Roksolana_47, ShayRa_50, SmellyB_46,

Soups_49, SuperAwesome_46, ToneTone_43, Tucker_47, VohminGhazi_46, Wiks_45, WunderPhul_46, Yokurt_46, Zaka_46, Zulu_47,

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

- SheaKeira_44,

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

- BabyBack_44,

Summary by start number:

Start 6:

- Found in 57 of 58 (98.3%) of genes in pham
- Manual Annotations of this start: 52 of 54
- Called 98.2% of time when present
- Phage (with cluster) where this start called: Anaysia_49 (A15), Artemis2UCLA_46 (A6), BABullseye_44 (A6), Blinn1_49 (A6), Blue7_49 (A6), Boohoo_49 (A15), Candra_46 (A6), Charm_43 (A9), Chartreuse_46 (A6), CloudWang3_46 (A6), Cookiedough_46 (A6), DaVinci_46 (A6), DekHockey33_49 (A15), Dorothea_46 (A6), DreamTeam1_43 (A9), EricB_46 (A6), Garak_48 (A6), GreedyLawyer_46 (A6), Gruunaga_46 (A6), Hammer_48 (A6), Helmet_48 (A6), Hexamo_46 (A6), Hoot_46 (A6), Indra_49 (A6), Isiphiwo_44 (A6), Jeffabunny_46 (A6), JewelBug_48 (A6), Jordennis_46 (A6), KatherineG_50 (A15), Kazan_47 (A6), Kipper29_46 (A6), Koko_48 (A6), LastResort_48 (A15), Lilbunny_45 (A6), Looper_49 (A15), McFly_46 (A6), Nebulosus_48 (A15), Neeharika16_46 (A6), Newrala_46 (A6), Pmask_46 (A6), Priamo_48 (A6), ReMo_48 (A15), Rifter_48 (A6), Roksolana_47 (A6), ShayRa_50 (A15), SmellyB_46 (A6), Soups_49 (A15), SuperAwesome_46 (A6), ToneTone_43 (A6), Tucker_47 (A6), VohminGhazi_46 (A6), Wiks_45 (A6), WunderPhul_46 (A6), Yokurt_46 (A6), Zaka_46 (A6), Zulu_47 (A6),

Start 7:

- Found in 2 of 58 (3.4%) of genes in pham
- Manual Annotations of this start: 2 of 54
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BabyBack_44 (A2), SheaKeira_44 (A9),

Summary by clusters:

There are 4 clusters represented in this pham: A15, A9, A2, A6,

Info for manual annotations of cluster A15:

- Start number 6 was manually annotated 10 times for cluster A15.

Info for manual annotations of cluster A2:

- Start number 7 was manually annotated 1 time for cluster A2.

Info for manual annotations of cluster A6:

- Start number 6 was manually annotated 40 times for cluster A6.

Info for manual annotations of cluster A9:

- Start number 6 was manually annotated 2 times for cluster A9.
- Start number 7 was manually annotated 1 time for cluster A9.

Gene Information:

Gene: Anaysia_49 Start: 30563, Stop: 30327, Start Num: 6

Candidate Starts for Anaysia_49:

(1, 30968), (2, 30884), (3, 30881), (Start: 6 @30563 has 52 MA's), (10, 30500),

Gene: Artemis2UCLA_46 Start: 29520, Stop: 29332, Start Num: 6

Candidate Starts for Artemis2UCLA_46:

(Start: 6 @29520 has 52 MA's), (11, 29436), (12, 29433), (13, 29412), (15, 29388),

Gene: BABullseye_44 Start: 29366, Stop: 29178, Start Num: 6

Candidate Starts for BABullseye_44:

(Start: 6 @29366 has 52 MA's), (11, 29282), (12, 29279), (13, 29258),

Gene: BabyBack_44 Start: 32081, Stop: 31851, Start Num: 7

Candidate Starts for BabyBack_44:

(4, 32216), (Start: 7 @32081 has 2 MA's), (10, 32027), (12, 31988), (18, 31913),

Gene: Blinn1_49 Start: 30331, Stop: 30152, Start Num: 6

Candidate Starts for Blinn1_49:

(Start: 6 @30331 has 52 MA's), (11, 30247), (12, 30244), (13, 30223),

Gene: Blue7_49 Start: 30167, Stop: 29988, Start Num: 6

Candidate Starts for Blue7_49:

(Start: 6 @30167 has 52 MA's), (9, 30122), (12, 30080), (14, 30038), (17, 30014),

Gene: Boohoo_49 Start: 30563, Stop: 30327, Start Num: 6

Candidate Starts for Boohoo_49:

(1, 30968), (2, 30884), (3, 30881), (Start: 6 @30563 has 52 MA's), (10, 30500),

Gene: Candra_46 Start: 29859, Stop: 29671, Start Num: 6

Candidate Starts for Candra_46:

(Start: 6 @29859 has 52 MA's), (9, 29814), (12, 29772), (15, 29727),

Gene: Charm_43 Start: 31035, Stop: 30844, Start Num: 6

Candidate Starts for Charm_43:

(4, 31164), (Start: 6 @31035 has 52 MA's), (10, 30984), (19, 30852),

Gene: Chartreuse_46 Start: 29770, Stop: 29582, Start Num: 6

Candidate Starts for Chartreuse_46:

(Start: 6 @29770 has 52 MA's), (11, 29686), (12, 29683), (13, 29662), (15, 29638),

Gene: CloudWang3_46 Start: 29620, Stop: 29432, Start Num: 6

Candidate Starts for CloudWang3_46:

(Start: 6 @29620 has 52 MA's), (11, 29536), (12, 29533), (13, 29512), (15, 29488),

Gene: Cookiedough_46 Start: 29835, Stop: 29647, Start Num: 6

Candidate Starts for Cookiedough_46:

(Start: 6 @29835 has 52 MA's), (11, 29751), (12, 29748), (13, 29727), (15, 29703),

Gene: DaVinci_46 Start: 29824, Stop: 29636, Start Num: 6

Candidate Starts for DaVinci_46:

(Start: 6 @29824 has 52 MA's), (11, 29740), (12, 29737), (13, 29716), (15, 29692),

Gene: DekHockey33_49 Start: 30778, Stop: 30542, Start Num: 6

Candidate Starts for DekHockey33_49:

(1, 31183), (2, 31099), (3, 31096), (Start: 6 @30778 has 52 MA's), (10, 30715),

Gene: Dorothea_46 Start: 29842, Stop: 29654, Start Num: 6

Candidate Starts for Dorothea_46:

(Start: 6 @29842 has 52 MA's), (9, 29797), (12, 29755), (15, 29710),

Gene: DreamTeam1_43 Start: 30909, Stop: 30718, Start Num: 6

Candidate Starts for DreamTeam1_43:

(4, 31038), (Start: 6 @30909 has 52 MA's), (10, 30858), (19, 30726),

Gene: EricB_46 Start: 29816, Stop: 29628, Start Num: 6

Candidate Starts for EricB_46:

(Start: 6 @29816 has 52 MA's), (9, 29771), (12, 29729), (15, 29684),

Gene: Garak_48 Start: 29987, Stop: 29799, Start Num: 6

Candidate Starts for Garak_48:

(Start: 6 @29987 has 52 MA's), (12, 29900), (13, 29879), (15, 29855),

Gene: GreedyLawyer_46 Start: 29823, Stop: 29635, Start Num: 6

Candidate Starts for GreedyLawyer_46:

(Start: 6 @29823 has 52 MA's), (9, 29778), (11, 29739), (12, 29736), (13, 29715), (15, 29691),

Gene: Gruunaga_46 Start: 29823, Stop: 29635, Start Num: 6

Candidate Starts for Gruunaga_46:

(Start: 6 @29823 has 52 MA's), (11, 29739), (12, 29736), (13, 29715), (15, 29691),

Gene: Hammer_48 Start: 29977, Stop: 29798, Start Num: 6

Candidate Starts for Hammer_48:

(Start: 6 @29977 has 52 MA's), (9, 29932), (14, 29848), (17, 29824),

Gene: Helmet_48 Start: 29987, Stop: 29799, Start Num: 6

Candidate Starts for Helmet_48:

(Start: 6 @29987 has 52 MA's), (12, 29900), (13, 29879), (15, 29855),

Gene: Hexamo_46 Start: 29608, Stop: 29420, Start Num: 6

Candidate Starts for Hexamo_46:

(Start: 6 @29608 has 52 MA's), (11, 29524), (12, 29521), (13, 29500), (15, 29476),

Gene: Hoot_46 Start: 29801, Stop: 29613, Start Num: 6

Candidate Starts for Hoot_46:

(Start: 6 @29801 has 52 MA's), (9, 29756), (12, 29714), (15, 29669),

Gene: Indra_49 Start: 29988, Stop: 29800, Start Num: 6

Candidate Starts for Indra_49:

(Start: 6 @29988 has 52 MA's), (12, 29901), (13, 29880), (15, 29856),

Gene: Isiphiwo_44 Start: 29360, Stop: 29172, Start Num: 6

Candidate Starts for Isiphiwo_44:

(Start: 6 @29360 has 52 MA's), (11, 29276), (12, 29273), (13, 29252), (15, 29228),

Gene: Jeffabunny_46 Start: 29644, Stop: 29456, Start Num: 6

Candidate Starts for Jeffabunny_46:

(Start: 6 @29644 has 52 MA's), (11, 29560), (12, 29557), (13, 29536), (15, 29512),

Gene: JewelBug_48 Start: 29992, Stop: 29804, Start Num: 6

Candidate Starts for JewelBug_48:

(Start: 6 @29992 has 52 MA's), (11, 29908), (12, 29905), (13, 29884), (15, 29860),

Gene: Jordennis_46 Start: 29831, Stop: 29643, Start Num: 6

Candidate Starts for Jordennis_46:

(Start: 6 @29831 has 52 MA's), (11, 29747), (12, 29744), (13, 29723), (15, 29699),

Gene: KatherineG_50 Start: 30778, Stop: 30542, Start Num: 6

Candidate Starts for KatherineG_50:

(1, 31183), (2, 31099), (3, 31096), (Start: 6 @30778 has 52 MA's), (10, 30715),

Gene: Kazan_47 Start: 29829, Stop: 29641, Start Num: 6

Candidate Starts for Kazan_47:

(Start: 6 @29829 has 52 MA's), (9, 29784), (12, 29742), (15, 29697),

Gene: Kipper29_46 Start: 29842, Stop: 29654, Start Num: 6

Candidate Starts for Kipper29_46:

(Start: 6 @29842 has 52 MA's), (9, 29797), (12, 29755), (15, 29710),

Gene: Koko_48 Start: 30516, Stop: 30337, Start Num: 6

Candidate Starts for Koko_48:

(Start: 6 @30516 has 52 MA's), (9, 30471), (14, 30387), (17, 30363),

Gene: LastResort_48 Start: 30339, Stop: 30103, Start Num: 6

Candidate Starts for LastResort_48:

(1, 30744), (2, 30660), (3, 30657), (Start: 6 @30339 has 52 MA's), (10, 30276),

Gene: Lilbunny_45 Start: 29618, Stop: 29430, Start Num: 6

Candidate Starts for Lilbunny_45:

(Start: 6 @29618 has 52 MA's), (11, 29534), (12, 29531), (13, 29510), (15, 29486),

Gene: Looper_49 Start: 30316, Stop: 30080, Start Num: 6

Candidate Starts for Looper_49:

(1, 30721), (2, 30637), (3, 30634), (Start: 6 @30316 has 52 MA's), (10, 30253),

Gene: McFly_46 Start: 29823, Stop: 29635, Start Num: 6

Candidate Starts for McFly_46:

(Start: 6 @29823 has 52 MA's), (9, 29778), (12, 29736), (15, 29691),

Gene: Nebulosus_48 Start: 30335, Stop: 30099, Start Num: 6

Candidate Starts for Nebulosus_48:

(1, 30740), (2, 30656), (3, 30653), (Start: 6 @30335 has 52 MA's), (10, 30272),

Gene: Neeharika16_46 Start: 29834, Stop: 29646, Start Num: 6

Candidate Starts for Neeharika16_46:

(Start: 6 @29834 has 52 MA's), (11, 29750), (12, 29747), (13, 29726), (15, 29702),

Gene: Newrala_46 Start: 29834, Stop: 29646, Start Num: 6

Candidate Starts for Newrala_46:

(Start: 6 @29834 has 52 MA's), (11, 29750), (12, 29747), (13, 29726), (15, 29702),

Gene: Pmask_46 Start: 29835, Stop: 29647, Start Num: 6

Candidate Starts for Pmask_46:

(Start: 6 @29835 has 52 MA's), (11, 29751), (12, 29748), (13, 29727), (15, 29703),

Gene: Priamo_48 Start: 30135, Stop: 29947, Start Num: 6

Candidate Starts for Priamo_48:

(5, 30213), (Start: 6 @30135 has 52 MA's), (11, 30051), (12, 30048), (13, 30027), (15, 30003),

Gene: ReMo_48 Start: 30336, Stop: 30100, Start Num: 6

Candidate Starts for ReMo_48:

(1, 30741), (2, 30657), (3, 30654), (Start: 6 @30336 has 52 MA's), (10, 30273),

Gene: Rifter_48 Start: 29940, Stop: 29761, Start Num: 6

Candidate Starts for Rifter_48:

(Start: 6 @29940 has 52 MA's), (9, 29895), (12, 29853), (14, 29811), (17, 29787),

Gene: Roksolana_47 Start: 29871, Stop: 29683, Start Num: 6

Candidate Starts for Roksolana_47:

(Start: 6 @29871 has 52 MA's), (11, 29787), (12, 29784), (13, 29763), (15, 29739),

Gene: ShayRa_50 Start: 30540, Stop: 30304, Start Num: 6

Candidate Starts for ShayRa_50:

(1, 30945), (2, 30861), (3, 30858), (Start: 6 @30540 has 52 MA's), (10, 30477),

Gene: SheaKeira_44 Start: 31011, Stop: 30799, Start Num: 7

Candidate Starts for SheaKeira_44:

(4, 31143), (Start: 6 @31014 has 52 MA's), (Start: 7 @31011 has 2 MA's), (8, 30999), (10, 30960),
(15, 30879), (16, 30867),

Gene: SmellyB_46 Start: 29823, Stop: 29635, Start Num: 6

Candidate Starts for SmellyB_46:

(Start: 6 @29823 has 52 MA's), (9, 29778), (12, 29736), (15, 29691),

Gene: Soups_49 Start: 30539, Stop: 30303, Start Num: 6

Candidate Starts for Soups_49:

(1, 30944), (2, 30860), (3, 30857), (Start: 6 @30539 has 52 MA's), (10, 30476),

Gene: SuperAwesome_46 Start: 29834, Stop: 29646, Start Num: 6

Candidate Starts for SuperAwesome_46:

(Start: 6 @29834 has 52 MA's), (11, 29750), (12, 29747), (13, 29726), (15, 29702),

Gene: ToneTone_43 Start: 29550, Stop: 29362, Start Num: 6

Candidate Starts for ToneTone_43:

(Start: 6 @29550 has 52 MA's), (11, 29466), (12, 29463), (13, 29442), (15, 29418),

Gene: Tucker_47 Start: 29988, Stop: 29800, Start Num: 6

Candidate Starts for Tucker_47:

(Start: 6 @29988 has 52 MA's), (11, 29904), (12, 29901), (13, 29880), (15, 29856),

Gene: VohminGhazi_46 Start: 29824, Stop: 29636, Start Num: 6
Candidate Starts for VohminGhazi_46:
(Start: 6 @29824 has 52 MA's), (9, 29779), (12, 29737), (15, 29692),

Gene: Wiks_45 Start: 29618, Stop: 29430, Start Num: 6
Candidate Starts for Wiks_45:
(Start: 6 @29618 has 52 MA's), (11, 29534), (12, 29531), (13, 29510), (15, 29486),

Gene: WunderPhul_46 Start: 29616, Stop: 29428, Start Num: 6
Candidate Starts for WunderPhul_46:
(Start: 6 @29616 has 52 MA's), (11, 29532), (12, 29529), (13, 29508), (15, 29484),

Gene: Yokurt_46 Start: 29618, Stop: 29430, Start Num: 6
Candidate Starts for Yokurt_46:
(Start: 6 @29618 has 52 MA's), (11, 29534), (12, 29531), (13, 29510), (15, 29486),

Gene: Zaka_46 Start: 29618, Stop: 29430, Start Num: 6
Candidate Starts for Zaka_46:
(Start: 6 @29618 has 52 MA's), (11, 29534), (12, 29531), (13, 29510), (15, 29486),

Gene: Zulu_47 Start: 29969, Stop: 29781, Start Num: 6
Candidate Starts for Zulu_47:
(Start: 6 @29969 has 52 MA's), (11, 29885), (12, 29882), (13, 29861), (15, 29837),