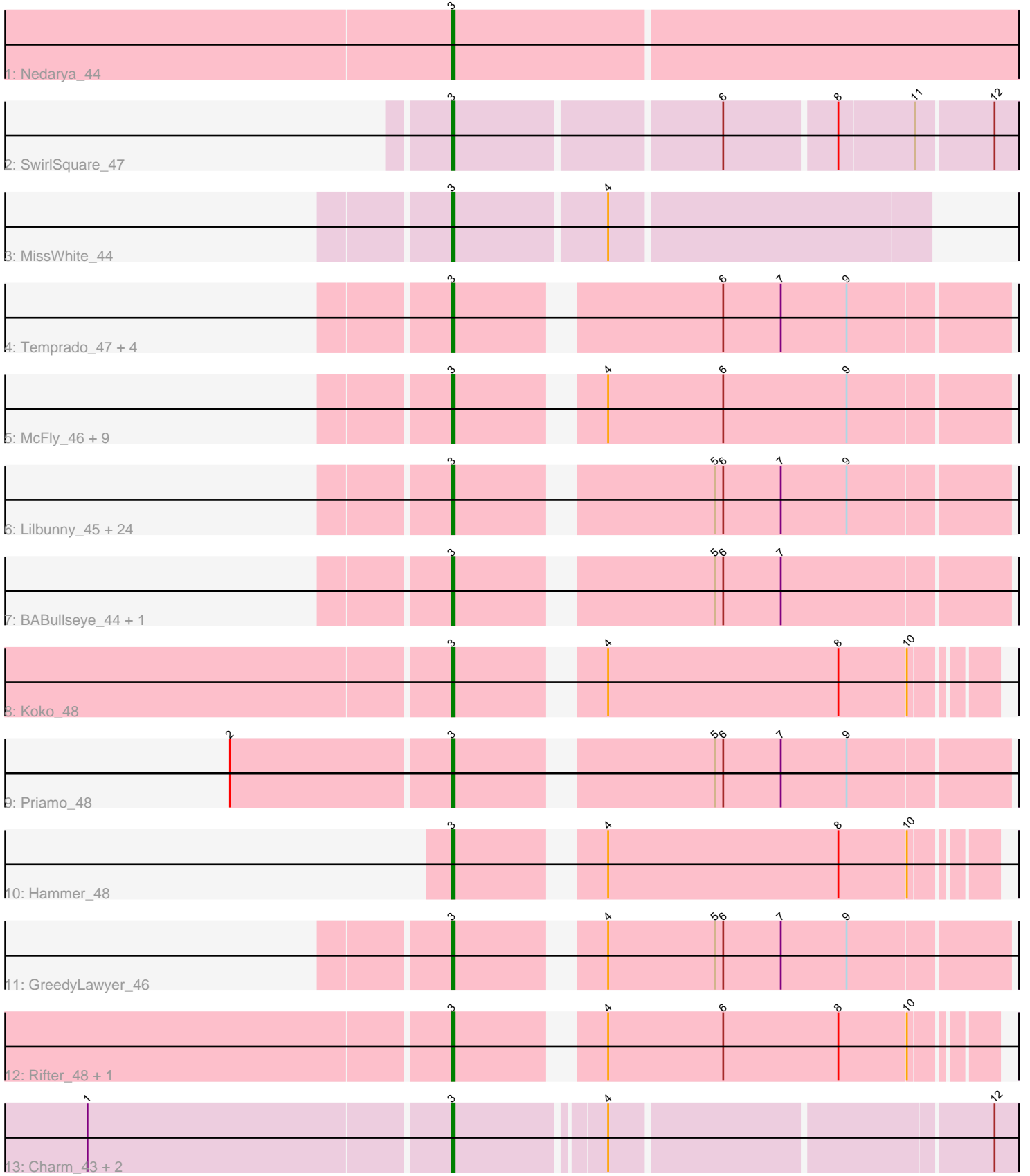


Pham 294788



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 294788 Report

This analysis was run 04/18/26 on database version 643.

Pham number 294788 has 54 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Nedarya_44
- Track 2 : SwirlSquare_47
- Track 3 : MissWhite_44
- Track 4 : Temprado_47, Helmet_48, Garak_48, Indra_49, Polyphemus_47
- Track 5 : McFly_46, Kazan_47, BennyP_47, EricB_46, Dorothea_46, SmellyB_46, Hoot_46, VohminGhazi_46, Candra_46, Kipper29_46
- Track 6 : Lilbunny_45, Zaka_46, Artemis2UCLA_46, ToneTone_43, Isiphiwo_44, Tucker_47, Roksolana_47, DaVinci_46, Wiks_45, Pmask_46, Chartreuse_46, Hexamo_46, CloudWang3_46, Yokurt_46, WunderPhul_46, Jeffabunny_46, Neeharika16_46, JewelBug_48, BlessJoy_47, Jordennis_46, SuperAwesome_46, Zulu_47, Cookiedough_46, Newrala_46, Gruunaga_46
- Track 7 : BABullseye_44, Blinn1_49
- Track 8 : Koko_48
- Track 9 : Priamo_48
- Track 10 : Hammer_48
- Track 11 : GreedyLawyer_46
- Track 12 : Rifter_48, Blue7_49
- Track 13 : Charm_43, DreamTeam1_43, Klodlith_44

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

The start number called the most often in the published annotations is 3, it was called in 50 of the 50 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Artemis2UCLA_46, BABullseye_44, BennyP_47, BlessJoy_47, Blinn1_49, Blue7_49, Candra_46, Charm_43, Chartreuse_46, CloudWang3_46, Cookiedough_46, DaVinci_46, 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, Kazan_47, Kipper29_46, Klodlith_44, Koko_48, Lilbunny_45, McFly_46, MissWhite_44, Nedarya_44, Neeharika16_46, Newrala_46, Pmask_46, Polyphemus_47, Priamo_48, Rifter_48, Roksolana_47, SmellyB_46, SuperAwesome_46, SwirlSquare_47, Temprado_47, 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:

-

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

-

Summary by start number:

Start 3:

- Found in 54 of 54 (100.0%) of genes in pham
- Manual Annotations of this start: 50 of 50
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Artemis2UCLA_46 (A6), BABullseye_44 (A6), BennyP_47 (A6), BlessJoy_47 (A6), Blinn1_49 (A6), Blue7_49 (A6), Candra_46 (A6), Charm_43 (A9), Chartreuse_46 (A6), CloudWang3_46 (A6), Cookiedough_46 (A6), DaVinci_46 (A6), 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), Kazan_47 (A6), Kipper29_46 (A6), Klodlith_44 (A9), Koko_48 (A6), Lilbunny_45 (A6), McFly_46 (A6), MissWhite_44 (A2), Nedarya_44 (A15), Neeharika16_46 (A6), Newrala_46 (A6), Pmask_46 (A6), Polyphemus_47 (A6), Priamo_48 (A6), Rifter_48 (A6), Roksolana_47 (A6), SmellyB_46 (A6), SuperAwesome_46 (A6), SwirlSquare_47 (A2), Temprado_47 (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),

Summary by clusters:

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

Info for manual annotations of cluster A15:

- Start number 3 was manually annotated 1 time for cluster A15.

Info for manual annotations of cluster A2:

- Start number 3 was manually annotated 2 times for cluster A2.

Info for manual annotations of cluster A6:

- Start number 3 was manually annotated 45 times for cluster A6.

Info for manual annotations of cluster A9:

- Start number 3 was manually annotated 2 times for cluster A9.

Gene Information:

Gene: Artemis2UCLA_46 Start: 29520, Stop: 29332, Start Num: 3

Candidate Starts for Artemis2UCLA_46:

(Start: 3 @29520 has 50 MA's), (5, 29436), (6, 29433), (7, 29412), (9, 29388),

Gene: BABullseye_44 Start: 29366, Stop: 29178, Start Num: 3

Candidate Starts for BABullseye_44:

(Start: 3 @29366 has 50 MA's), (5, 29282), (6, 29279), (7, 29258),

Gene: BennyP_47 Start: 29968, Stop: 29780, Start Num: 3

Candidate Starts for BennyP_47:

(Start: 3 @29968 has 50 MA's), (4, 29923), (6, 29881), (9, 29836),

Gene: BlessJoy_47 Start: 29981, Stop: 29793, Start Num: 3

Candidate Starts for BlessJoy_47:

(Start: 3 @29981 has 50 MA's), (5, 29897), (6, 29894), (7, 29873), (9, 29849),

Gene: Blinn1_49 Start: 30331, Stop: 30152, Start Num: 3

Candidate Starts for Blinn1_49:

(Start: 3 @30331 has 50 MA's), (5, 30247), (6, 30244), (7, 30223),

Gene: Blue7_49 Start: 30167, Stop: 29988, Start Num: 3

Candidate Starts for Blue7_49:

(Start: 3 @30167 has 50 MA's), (4, 30122), (6, 30080), (8, 30038), (10, 30014),

Gene: Candra_46 Start: 29859, Stop: 29671, Start Num: 3

Candidate Starts for Candra_46:

(Start: 3 @29859 has 50 MA's), (4, 29814), (6, 29772), (9, 29727),

Gene: Charm_43 Start: 31035, Stop: 30844, Start Num: 3

Candidate Starts for Charm_43:

(1, 31164), (Start: 3 @31035 has 50 MA's), (4, 30984), (12, 30852),

Gene: Chartreuse_46 Start: 29770, Stop: 29582, Start Num: 3

Candidate Starts for Chartreuse_46:

(Start: 3 @29770 has 50 MA's), (5, 29686), (6, 29683), (7, 29662), (9, 29638),

Gene: CloudWang3_46 Start: 29620, Stop: 29432, Start Num: 3

Candidate Starts for CloudWang3_46:

(Start: 3 @29620 has 50 MA's), (5, 29536), (6, 29533), (7, 29512), (9, 29488),

Gene: Cookiedough_46 Start: 29835, Stop: 29647, Start Num: 3

Candidate Starts for Cookiedough_46:

(Start: 3 @29835 has 50 MA's), (5, 29751), (6, 29748), (7, 29727), (9, 29703),

Gene: DaVinci_46 Start: 29824, Stop: 29636, Start Num: 3

Candidate Starts for DaVinci_46:

(Start: 3 @29824 has 50 MA's), (5, 29740), (6, 29737), (7, 29716), (9, 29692),

Gene: Dorothea_46 Start: 29842, Stop: 29654, Start Num: 3

Candidate Starts for Dorothea_46:

(Start: 3 @29842 has 50 MA's), (4, 29797), (6, 29755), (9, 29710),

Gene: DreamTeam1_43 Start: 30909, Stop: 30718, Start Num: 3

Candidate Starts for DreamTeam1_43:

(1, 31038), (Start: 3 @30909 has 50 MA's), (4, 30858), (12, 30726),

Gene: EricB_46 Start: 29816, Stop: 29628, Start Num: 3

Candidate Starts for EricB_46:

(Start: 3 @29816 has 50 MA's), (4, 29771), (6, 29729), (9, 29684),

Gene: Garak_48 Start: 29987, Stop: 29799, Start Num: 3

Candidate Starts for Garak_48:

(Start: 3 @29987 has 50 MA's), (6, 29900), (7, 29879), (9, 29855),

Gene: GreedyLawyer_46 Start: 29823, Stop: 29635, Start Num: 3

Candidate Starts for GreedyLawyer_46:

(Start: 3 @29823 has 50 MA's), (4, 29778), (5, 29739), (6, 29736), (7, 29715), (9, 29691),

Gene: Gruunaga_46 Start: 29823, Stop: 29635, Start Num: 3

Candidate Starts for Gruunaga_46:

(Start: 3 @29823 has 50 MA's), (5, 29739), (6, 29736), (7, 29715), (9, 29691),

Gene: Hammer_48 Start: 29977, Stop: 29798, Start Num: 3

Candidate Starts for Hammer_48:

(Start: 3 @29977 has 50 MA's), (4, 29932), (8, 29848), (10, 29824),

Gene: Helmet_48 Start: 29987, Stop: 29799, Start Num: 3

Candidate Starts for Helmet_48:

(Start: 3 @29987 has 50 MA's), (6, 29900), (7, 29879), (9, 29855),

Gene: Hexamo_46 Start: 29608, Stop: 29420, Start Num: 3

Candidate Starts for Hexamo_46:

(Start: 3 @29608 has 50 MA's), (5, 29524), (6, 29521), (7, 29500), (9, 29476),

Gene: Hoot_46 Start: 29801, Stop: 29613, Start Num: 3

Candidate Starts for Hoot_46:

(Start: 3 @29801 has 50 MA's), (4, 29756), (6, 29714), (9, 29669),

Gene: Indra_49 Start: 29988, Stop: 29800, Start Num: 3

Candidate Starts for Indra_49:

(Start: 3 @29988 has 50 MA's), (6, 29901), (7, 29880), (9, 29856),

Gene: Isiphiwo_44 Start: 29360, Stop: 29172, Start Num: 3

Candidate Starts for Isiphiwo_44:

(Start: 3 @29360 has 50 MA's), (5, 29276), (6, 29273), (7, 29252), (9, 29228),

Gene: Jeffabunny_46 Start: 29644, Stop: 29456, Start Num: 3

Candidate Starts for Jeffabunny_46:

(Start: 3 @29644 has 50 MA's), (5, 29560), (6, 29557), (7, 29536), (9, 29512),

Gene: JewelBug_48 Start: 29992, Stop: 29804, Start Num: 3

Candidate Starts for JewelBug_48:

(Start: 3 @29992 has 50 MA's), (5, 29908), (6, 29905), (7, 29884), (9, 29860),

Gene: Jordennis_46 Start: 29831, Stop: 29643, Start Num: 3

Candidate Starts for Jordennis_46:

(Start: 3 @29831 has 50 MA's), (5, 29747), (6, 29744), (7, 29723), (9, 29699),

Gene: Kazan_47 Start: 29829, Stop: 29641, Start Num: 3

Candidate Starts for Kazan_47:

(Start: 3 @29829 has 50 MA's), (4, 29784), (6, 29742), (9, 29697),

Gene: Kipper29_46 Start: 29842, Stop: 29654, Start Num: 3

Candidate Starts for Kipper29_46:

(Start: 3 @29842 has 50 MA's), (4, 29797), (6, 29755), (9, 29710),

Gene: Klodlith_44 Start: 30926, Stop: 30735, Start Num: 3

Candidate Starts for Klodlith_44:

(1, 31055), (Start: 3 @30926 has 50 MA's), (4, 30875), (12, 30743),

Gene: Koko_48 Start: 30516, Stop: 30337, Start Num: 3

Candidate Starts for Koko_48:

(Start: 3 @30516 has 50 MA's), (4, 30471), (8, 30387), (10, 30363),

Gene: Lilbunny_45 Start: 29618, Stop: 29430, Start Num: 3

Candidate Starts for Lilbunny_45:

(Start: 3 @29618 has 50 MA's), (5, 29534), (6, 29531), (7, 29510), (9, 29486),

Gene: McFly_46 Start: 29823, Stop: 29635, Start Num: 3

Candidate Starts for McFly_46:

(Start: 3 @29823 has 50 MA's), (4, 29778), (6, 29736), (9, 29691),

Gene: MissWhite_44 Start: 29921, Stop: 29754, Start Num: 3

Candidate Starts for MissWhite_44:

(Start: 3 @29921 has 50 MA's), (4, 29867),

Gene: Nedarya_44 Start: 29716, Stop: 29513, Start Num: 3

Candidate Starts for Nedarya_44:

(Start: 3 @29716 has 50 MA's),

Gene: Neeharika16_46 Start: 29834, Stop: 29646, Start Num: 3

Candidate Starts for Neeharika16_46:

(Start: 3 @29834 has 50 MA's), (5, 29750), (6, 29747), (7, 29726), (9, 29702),

Gene: Newrala_46 Start: 29834, Stop: 29646, Start Num: 3

Candidate Starts for Newrala_46:

(Start: 3 @29834 has 50 MA's), (5, 29750), (6, 29747), (7, 29726), (9, 29702),

Gene: Pmask_46 Start: 29835, Stop: 29647, Start Num: 3

Candidate Starts for Pmask_46:

(Start: 3 @29835 has 50 MA's), (5, 29751), (6, 29748), (7, 29727), (9, 29703),

Gene: Polyphemus_47 Start: 29978, Stop: 29790, Start Num: 3

Candidate Starts for Polyphemus_47:

(Start: 3 @29978 has 50 MA's), (6, 29891), (7, 29870), (9, 29846),

Gene: Priamo_48 Start: 30135, Stop: 29947, Start Num: 3

Candidate Starts for Priamo_48:

(2, 30213), (Start: 3 @30135 has 50 MA's), (5, 30051), (6, 30048), (7, 30027), (9, 30003),

Gene: Rifter_48 Start: 29940, Stop: 29761, Start Num: 3

Candidate Starts for Rifter_48:

(Start: 3 @29940 has 50 MA's), (4, 29895), (6, 29853), (8, 29811), (10, 29787),

Gene: Roksolana_47 Start: 29871, Stop: 29683, Start Num: 3
Candidate Starts for Roksolana_47:
(Start: 3 @29871 has 50 MA's), (5, 29787), (6, 29784), (7, 29763), (9, 29739),

Gene: SmellyB_46 Start: 29823, Stop: 29635, Start Num: 3
Candidate Starts for SmellyB_46:
(Start: 3 @29823 has 50 MA's), (4, 29778), (6, 29736), (9, 29691),

Gene: SuperAwesome_46 Start: 29834, Stop: 29646, Start Num: 3
Candidate Starts for SuperAwesome_46:
(Start: 3 @29834 has 50 MA's), (5, 29750), (6, 29747), (7, 29726), (9, 29702),

Gene: SwirlSquare_47 Start: 30451, Stop: 30257, Start Num: 3
Candidate Starts for SwirlSquare_47:
(Start: 3 @30451 has 50 MA's), (6, 30358), (8, 30319), (11, 30292), (12, 30265),

Gene: Temprado_47 Start: 29987, Stop: 29799, Start Num: 3
Candidate Starts for Temprado_47:
(Start: 3 @29987 has 50 MA's), (6, 29900), (7, 29879), (9, 29855),

Gene: ToneTone_43 Start: 29550, Stop: 29362, Start Num: 3
Candidate Starts for ToneTone_43:
(Start: 3 @29550 has 50 MA's), (5, 29466), (6, 29463), (7, 29442), (9, 29418),

Gene: Tucker_47 Start: 29988, Stop: 29800, Start Num: 3
Candidate Starts for Tucker_47:
(Start: 3 @29988 has 50 MA's), (5, 29904), (6, 29901), (7, 29880), (9, 29856),

Gene: VohminGhazi_46 Start: 29824, Stop: 29636, Start Num: 3
Candidate Starts for VohminGhazi_46:
(Start: 3 @29824 has 50 MA's), (4, 29779), (6, 29737), (9, 29692),

Gene: Wiks_45 Start: 29618, Stop: 29430, Start Num: 3
Candidate Starts for Wiks_45:
(Start: 3 @29618 has 50 MA's), (5, 29534), (6, 29531), (7, 29510), (9, 29486),

Gene: WunderPhul_46 Start: 29616, Stop: 29428, Start Num: 3
Candidate Starts for WunderPhul_46:
(Start: 3 @29616 has 50 MA's), (5, 29532), (6, 29529), (7, 29508), (9, 29484),

Gene: Yokurt_46 Start: 29618, Stop: 29430, Start Num: 3
Candidate Starts for Yokurt_46:
(Start: 3 @29618 has 50 MA's), (5, 29534), (6, 29531), (7, 29510), (9, 29486),

Gene: Zaka_46 Start: 29618, Stop: 29430, Start Num: 3
Candidate Starts for Zaka_46:
(Start: 3 @29618 has 50 MA's), (5, 29534), (6, 29531), (7, 29510), (9, 29486),

Gene: Zulu_47 Start: 29969, Stop: 29781, Start Num: 3
Candidate Starts for Zulu_47:
(Start: 3 @29969 has 50 MA's), (5, 29885), (6, 29882), (7, 29861), (9, 29837),