

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 163528 Report

This analysis was run 04/28/24 on database version 559.

Pham number 163528 has 85 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Poompha_84, Drake94_83, Goose_87, OKCentral2016_85, PeaceMeal1_83, KittenMittens_81
- Track 2 : Topanga_76, WalterMcMickey_86, Twister_87
- Track 3 : Rebeuca_87
- Track 4 : DARTHPhader_91, Refuge_91, Zimmer_90
- Track 5 : PainterBoy_93, EagleEye_96, Lucyedi_94
- Track 6 : 20ES_96, SororFago_97, First_0095, Gail_101, Jeeves_101, CRB1_94
- Track 7 : HarryHoudini_95, Flare16_96, Baehexic_96, Piro94_94
- Track 8 : Herbertwm_89, Chargerpower_100
- Track 9 : Che12_100, Adzzy_98, Ph8s_99
- Track 10 : Benvolio_94, Echild_99
- Track 11 : Superchunk_98
- Track 12 : Trooper_94
- Track 13 : Hammer_103, Newrala_101, Isiphiwo_98, Artemis2UCLA_104, CloudWang3_105, Blue7_104, Koko_104, Kazan_103, VohminGhazi_102, Priamo_100, Roksolana_105, Jeffabunny_93, Rifter_103, Cookiedough_100, EricB_99, Wiks_102, Iwokeuplikedis_97, McFly_101, Tucker_103, Hexamo_104, Hoot_97, Gruunaga_103, DaVinci_99, SuperAwesome_101, SmellyB_102, BABullseye_95, WunderPhul_91, JewelBug_93, Zaka_103
- Track 14 : Phonnegut_99, Myxus_99, Beemo_99, Qobbit_96, Priya_96, Alma_96, Aliter_92, Pioneer_99, HortumSL17_100, Tubs_99, Eidsmoe_96, Catalina_101, Conquerage_96, Scherzo_97
- Track 15 : Charm_93, SheaKeira_93
- Track 16 : DreamTeam1_94
- Track 17 : Phaeder_99
- Track 18 : LoneWolf_98
- Track 19 : Rahalelujah_97
- Track 20 : Yecey3_101

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

The start number called the most often in the published annotations is 14, it was called in 29 of the 82 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Artemis2UCLA_104, BABullseye_95, Blue7_104, CloudWang3_105, Cookiedough_100, DaVinci_99, EricB_99, Gruunaga_103, Hammer_103, Hexamo_104, Hoot_97, 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:

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

- 20ES_96, Adzzy_98, Aliter_92, Alma_96, Baehexic_96, Beemo_99, Benvolio_94, CRB1_94, Catalina_101, Chargerpower_100, Charm_93, Che12_100, Conquerage_96, DarthPhader_91, Drake94_83, DreamTeam1_94, EagleEye_96, Echild_99, Eidsmoe_96, First_0095, Flare16_96, Gail_101, Goose_87, HarryHoudini_95, Herbertwm_89, HortumSL17_100, Jeeves_101, KittenMittens_81, LoneWolf_98, Lucyedi_94, Myxus_99, OKCentral2016_85, PainterBoy_93, PeaceMeal1_83, Ph8s_99, Phaeder_99, Phonnegut_99, Pioneer_99, Piro94_94, Poompha_84, Priya_96, Qobbit_96, Rahalelujah_97, Rebeuca_87, Refuge_91, Scherzo_97, SheaKeira_93, SororFago_97, Superchunk_98, Topanga_76, Trooper_94, Tubs_99, Twister_87, WalterMcMickey_86, Yecey3_101, Zimmer_90,

Summary by start number:

Start 9:

- Found in 25 of 85 (29.4%) of genes in pham
- Manual Annotations of this start: 17 of 82
- Called 68.0% of time when present
- Phage (with cluster) where this start called: Chargerpower_100 (A), Drake94_83 (A10), EagleEye_96 (A16), Goose_87 (A10), Herbertwm_89 (A2), KittenMittens_81 (A10), Lucyedi_94 (A16), OKCentral2016_85 (A10), PainterBoy_93 (A16), PeaceMeal1_83 (A10), Poompha_84 (A10), Rebeuca_87 (A10), Topanga_76 (A10), Trooper_94 (A2), Twister_87 (A10), WalterMcMickey_86 (A10), Yecey3_101 (A9),

Start 10:

- Found in 1 of 85 (1.2%) of genes in pham
- Manual Annotations of this start: 1 of 82
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Superchunk_98 (A2),

Start 11:

- Found in 2 of 85 (2.4%) of genes in pham
- Manual Annotations of this start: 2 of 82
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Charm_93 (A9), SheaKeira_93 (A9),

Start 13:

- Found in 19 of 85 (22.4%) of genes in pham
- Manual Annotations of this start: 18 of 82
- Called 94.7% of time when present
- Phage (with cluster) where this start called: Aliter_92 (A9), Alma_96 (A9), Beemo_99 (A9), Catalina_101 (A9), Conquerage_96 (A9), DreamTeam1_94 (A9),

Eidsmoe_96 (A9), HortumSL17_100 (A9), LoneWolf_98 (A9), Myxus_99 (A9), Phaeder_99 (A9), Phonnegut_99 (A9), Pioneer_99 (A9), Priya_96 (A9), Qobbit_96 (A9), Rahalelujah_97 (A9), Scherzo_97 (A9), Tubs_99 (A9),

Start 14:

- Found in 29 of 85 (34.1%) of genes in pham
- Manual Annotations of this start: 29 of 82
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Artemis2UCLA_104 (A6), BABullseye_95 (A6), Blue7_104 (A6), CloudWang3_105 (A6), Cookiedough_100 (A6), DaVinci_99 (A6), EricB_99 (A6), Gruunaga_103 (A6), Hammer_103 (A6), Hexamo_104 (A6), Hoot_97 (A6), Isiphiwo_98 (A6), Iwokeuplieddis_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 15:

- Found in 35 of 85 (41.2%) of genes in pham
- Manual Annotations of this start: 15 of 82
- Called 51.4% of time when present
- Phage (with cluster) where this start called: 20ES_96 (A2), Adzzy_98 (A2), Baehexic_96 (A2), Benvolio_94 (A2), CRB1_94 (A2), Che12_100 (A2), DARTHPhader_91 (A12), Echid_99 (A2), First_0095 (A2), Flare16_96 (A2), Gail_101 (A14), HarryHoudini_95 (A2), Jeeves_101 (A14), Ph8s_99 (A2), Piro94_94 (A2), Refuge_91 (A12), SororFago_97 (A14), Zimmer_90 (A12),

Summary by clusters:

There are 8 clusters represented in this pham: A, A14, A16, A10, A12, A2, A6, A9,

Info for manual annotations of cluster A:

- Start number 9 was manually annotated 1 time for cluster A.

Info for manual annotations of cluster A10:

- Start number 9 was manually annotated 10 times for cluster A10.

Info for manual annotations of cluster A12:

- Start number 15 was manually annotated 3 times for cluster A12.

Info for manual annotations of cluster A14:

- Start number 15 was manually annotated 3 times for cluster A14.

Info for manual annotations of cluster A16:

- Start number 9 was manually annotated 3 times for cluster A16.

Info for manual annotations of cluster A2:

- Start number 9 was manually annotated 2 times for cluster A2.
- Start number 10 was manually annotated 1 time for cluster A2.
- Start number 14 was manually annotated 1 time for cluster A2.
- Start number 15 was manually annotated 9 times for cluster A2.

Info for manual annotations of cluster A6:

- Start number 14 was manually annotated 28 times for cluster A6.

Info for manual annotations of cluster A9:

- Start number 9 was manually annotated 1 time for cluster A9.
- Start number 11 was manually annotated 2 times for cluster A9.
- Start number 13 was manually annotated 18 times for cluster A9.

Gene Information:

Gene: 20ES_96 Start: 51549, Stop: 51469, Start Num: 15

Candidate Starts for 20ES_96:

(Start: 15 @51549 has 15 MA's),

Gene: Adzzy_98 Start: 50880, Stop: 50794, Start Num: 15

Candidate Starts for Adzzy_98:

(Start: 15 @50880 has 15 MA's),

Gene: Aliter_92 Start: 48676, Stop: 48593, Start Num: 13

Candidate Starts for Aliter_92:

(Start: 13 @48676 has 18 MA's), (17, 48652),

Gene: Alma_96 Start: 51386, Stop: 51303, Start Num: 13

Candidate Starts for Alma_96:

(Start: 13 @51386 has 18 MA's), (17, 51362),

Gene: Artemis2UCLA_104 Start: 50753, Stop: 50673, Start Num: 14

Candidate Starts for Artemis2UCLA_104:

(Start: 14 @50753 has 29 MA's),

Gene: BABullseye_95 Start: 48891, Stop: 48811, Start Num: 14

Candidate Starts for BABullseye_95:

(Start: 14 @48891 has 29 MA's),

Gene: Baehexic_96 Start: 51625, Stop: 51542, Start Num: 15

Candidate Starts for Baehexic_96:

(7, 51664), (Start: 9 @51652 has 17 MA's), (Start: 15 @51625 has 15 MA's), (18, 51556),

Gene: Beemo_99 Start: 51507, Stop: 51424, Start Num: 13

Candidate Starts for Beemo_99:

(Start: 13 @51507 has 18 MA's), (17, 51483),

Gene: Benvolio_94 Start: 51606, Stop: 51523, Start Num: 15

Candidate Starts for Benvolio_94:

(Start: 15 @51606 has 15 MA's),

Gene: Blue7_104 Start: 50660, Stop: 50580, Start Num: 14

Candidate Starts for Blue7_104:

(Start: 14 @50660 has 29 MA's),

Gene: CRB1_94 Start: 51399, Stop: 51319, Start Num: 15

Candidate Starts for CRB1_94:

(Start: 15 @51399 has 15 MA's),

Gene: Catalina_101 Start: 51620, Stop: 51537, Start Num: 13

Candidate Starts for Catalina_101:

(Start: 13 @51620 has 18 MA's), (17, 51596),

Gene: Chargerpower_100 Start: 51126, Stop: 51016, Start Num: 9

Candidate Starts for Chargerpower_100:

(Start: 9 @51126 has 17 MA's), (Start: 15 @51096 has 15 MA's),

Gene: Charm_93 Start: 50874, Stop: 50782, Start Num: 11

Candidate Starts for Charm_93:

(Start: 11 @50874 has 2 MA's),

Gene: Che12_100 Start: 51350, Stop: 51264, Start Num: 15

Candidate Starts for Che12_100:

(Start: 15 @51350 has 15 MA's),

Gene: CloudWang3_105 Start: 51282, Stop: 51202, Start Num: 14

Candidate Starts for CloudWang3_105:

(Start: 14 @51282 has 29 MA's),

Gene: Conquerage_96 Start: 51162, Stop: 51079, Start Num: 13

Candidate Starts for Conquerage_96:

(Start: 13 @51162 has 18 MA's), (17, 51138),

Gene: Cookiedough_100 Start: 50874, Stop: 50794, Start Num: 14

Candidate Starts for Cookiedough_100:

(Start: 14 @50874 has 29 MA's),

Gene: DaVinci_99 Start: 49954, Stop: 49874, Start Num: 14

Candidate Starts for DaVinci_99:

(Start: 14 @49954 has 29 MA's),

Gene: DarthPhader_91 Start: 51639, Stop: 51556, Start Num: 15

Candidate Starts for DarthPhader_91:

(Start: 9 @51669 has 17 MA's), (Start: 15 @51639 has 15 MA's), (18, 51570),

Gene: Drake94_83 Start: 48766, Stop: 48662, Start Num: 9

Candidate Starts for Drake94_83:

(Start: 9 @48766 has 17 MA's), (Start: 15 @48739 has 15 MA's),

Gene: DreamTeam1_94 Start: 50836, Stop: 50741, Start Num: 13

Candidate Starts for DreamTeam1_94:

(Start: 13 @50836 has 18 MA's),

Gene: EagleEye_96 Start: 51407, Stop: 51303, Start Num: 9

Candidate Starts for EagleEye_96:

(2, 51491), (Start: 9 @51407 has 17 MA's), (Start: 15 @51380 has 15 MA's),

Gene: Echild_99 Start: 51630, Stop: 51547, Start Num: 15

Candidate Starts for Echild_99:

(Start: 15 @51630 has 15 MA's),

Gene: Eidsmoe_96 Start: 51155, Stop: 51072, Start Num: 13

Candidate Starts for Eidsmoe_96:

(Start: 13 @51155 has 18 MA's), (17, 51131),

Gene: EricB_99 Start: 50099, Stop: 50019, Start Num: 14

Candidate Starts for EricB_99:

(Start: 14 @50099 has 29 MA's),

Gene: First_0095 Start: 51452, Stop: 51372, Start Num: 15

Candidate Starts for First_0095:

(Start: 15 @51452 has 15 MA's),

Gene: Flare16_96 Start: 51348, Stop: 51265, Start Num: 15

Candidate Starts for Flare16_96:

(7, 51387), (Start: 9 @51375 has 17 MA's), (Start: 15 @51348 has 15 MA's), (18, 51279),

Gene: Gail_101 Start: 51991, Stop: 51902, Start Num: 15

Candidate Starts for Gail_101:

(Start: 15 @51991 has 15 MA's),

Gene: Goose_87 Start: 49419, Stop: 49315, Start Num: 9

Candidate Starts for Goose_87:

(Start: 9 @49419 has 17 MA's), (Start: 15 @49392 has 15 MA's),

Gene: Gruunaga_103 Start: 50567, Stop: 50487, Start Num: 14

Candidate Starts for Gruunaga_103:

(Start: 14 @50567 has 29 MA's),

Gene: Hammer_103 Start: 50264, Stop: 50184, Start Num: 14

Candidate Starts for Hammer_103:

(Start: 14 @50264 has 29 MA's),

Gene: HarryHoudini_95 Start: 51214, Stop: 51131, Start Num: 15

Candidate Starts for HarryHoudini_95:

(7, 51253), (Start: 9 @51241 has 17 MA's), (Start: 15 @51214 has 15 MA's), (18, 51145),

Gene: Herbertwm_89 Start: 50204, Stop: 50097, Start Num: 9

Candidate Starts for Herbertwm_89:

(Start: 9 @50204 has 17 MA's), (Start: 15 @50180 has 15 MA's),

Gene: Hexamo_104 Start: 50768, Stop: 50688, Start Num: 14

Candidate Starts for Hexamo_104:

(Start: 14 @50768 has 29 MA's),

Gene: Hoot_97 Start: 48416, Stop: 48336, Start Num: 14

Candidate Starts for Hoot_97:

(Start: 14 @48416 has 29 MA's),

Gene: HortumSL17_100 Start: 51621, Stop: 51538, Start Num: 13

Candidate Starts for HortumSL17_100:

(Start: 13 @51621 has 18 MA's), (17, 51597),

Gene: Isiphiwo_98 Start: 50318, Stop: 50238, Start Num: 14
Candidate Starts for Isiphiwo_98:
(Start: 14 @50318 has 29 MA's),

Gene: Iwokeuplikedis_97 Start: 51725, Stop: 51645, Start Num: 14
Candidate Starts for Iwokeuplikedis_97:
(Start: 14 @51725 has 29 MA's),

Gene: Jeeves_101 Start: 50780, Stop: 50691, Start Num: 15
Candidate Starts for Jeeves_101:
(Start: 15 @50780 has 15 MA's),

Gene: Jeffabunny_93 Start: 47371, Stop: 47291, Start Num: 14
Candidate Starts for Jeffabunny_93:
(Start: 14 @47371 has 29 MA's),

Gene: JewelBug_93 Start: 48747, Stop: 48667, Start Num: 14
Candidate Starts for JewelBug_93:
(Start: 14 @48747 has 29 MA's),

Gene: Kazan_103 Start: 50569, Stop: 50489, Start Num: 14
Candidate Starts for Kazan_103:
(Start: 14 @50569 has 29 MA's),

Gene: KittenMittens_81 Start: 48769, Stop: 48665, Start Num: 9
Candidate Starts for KittenMittens_81:
(Start: 9 @48769 has 17 MA's), (Start: 15 @48742 has 15 MA's),

Gene: Koko_104 Start: 51281, Stop: 51201, Start Num: 14
Candidate Starts for Koko_104:
(Start: 14 @51281 has 29 MA's),

Gene: LoneWolf_98 Start: 51497, Stop: 51414, Start Num: 13
Candidate Starts for LoneWolf_98:
(Start: 13 @51497 has 18 MA's),

Gene: Lucyedi_94 Start: 51420, Stop: 51316, Start Num: 9
Candidate Starts for Lucyedi_94:
(2, 51504), (Start: 9 @51420 has 17 MA's), (Start: 15 @51393 has 15 MA's),

Gene: McFly_101 Start: 50908, Stop: 50828, Start Num: 14
Candidate Starts for McFly_101:
(Start: 14 @50908 has 29 MA's),

Gene: Myxus_99 Start: 51621, Stop: 51538, Start Num: 13
Candidate Starts for Myxus_99:
(Start: 13 @51621 has 18 MA's), (17, 51597),

Gene: Newrala_101 Start: 51007, Stop: 50927, Start Num: 14
Candidate Starts for Newrala_101:
(Start: 14 @51007 has 29 MA's),

Gene: OKCentral2016_85 Start: 48846, Stop: 48742, Start Num: 9

Candidate Starts for OKCentral2016_85:

(Start: 9 @48846 has 17 MA's), (Start: 15 @48819 has 15 MA's),

Gene: PainterBoy_93 Start: 51131, Stop: 51027, Start Num: 9

Candidate Starts for PainterBoy_93:

(2, 51215), (Start: 9 @51131 has 17 MA's), (Start: 15 @51104 has 15 MA's),

Gene: PeaceMeal1_83 Start: 48773, Stop: 48669, Start Num: 9

Candidate Starts for PeaceMeal1_83:

(Start: 9 @48773 has 17 MA's), (Start: 15 @48746 has 15 MA's),

Gene: Ph8s_99 Start: 51211, Stop: 51125, Start Num: 15

Candidate Starts for Ph8s_99:

(Start: 15 @51211 has 15 MA's),

Gene: Phaeder_99 Start: 51496, Stop: 51413, Start Num: 13

Candidate Starts for Phaeder_99:

(Start: 13 @51496 has 18 MA's), (16, 51484), (17, 51472),

Gene: Phonnegut_99 Start: 51506, Stop: 51423, Start Num: 13

Candidate Starts for Phonnegut_99:

(Start: 13 @51506 has 18 MA's), (17, 51482),

Gene: Pioneer_99 Start: 51506, Stop: 51423, Start Num: 13

Candidate Starts for Pioneer_99:

(Start: 13 @51506 has 18 MA's), (17, 51482),

Gene: Piro94_94 Start: 51139, Stop: 51056, Start Num: 15

Candidate Starts for Piro94_94:

(7, 51178), (Start: 9 @51166 has 17 MA's), (Start: 15 @51139 has 15 MA's), (18, 51070),

Gene: Poompha_84 Start: 48962, Stop: 48858, Start Num: 9

Candidate Starts for Poompha_84:

(Start: 9 @48962 has 17 MA's), (Start: 15 @48935 has 15 MA's),

Gene: Priamo_100 Start: 50060, Stop: 49980, Start Num: 14

Candidate Starts for Priamo_100:

(Start: 14 @50060 has 29 MA's),

Gene: Priya_96 Start: 51158, Stop: 51075, Start Num: 13

Candidate Starts for Priya_96:

(Start: 13 @51158 has 18 MA's), (17, 51134),

Gene: Qobbit_96 Start: 51120, Stop: 51037, Start Num: 13

Candidate Starts for Qobbit_96:

(Start: 13 @51120 has 18 MA's), (17, 51096),

Gene: Rahalelujah_97 Start: 51017, Stop: 50934, Start Num: 13

Candidate Starts for Rahalelujah_97:

(Start: 9 @51047 has 17 MA's), (Start: 13 @51017 has 18 MA's),

Gene: Rebeuca_87 Start: 50078, Stop: 49974, Start Num: 9

Candidate Starts for Rebeuca_87:

(5, 50123), (Start: 9 @50078 has 17 MA's), (Start: 15 @50051 has 15 MA's),

Gene: Refuge_91 Start: 51856, Stop: 51773, Start Num: 15

Candidate Starts for Refuge_91:

(Start: 9 @51886 has 17 MA's), (Start: 15 @51856 has 15 MA's), (18, 51787),

Gene: Rifter_103 Start: 50059, Stop: 49979, Start Num: 14

Candidate Starts for Rifter_103:

(Start: 14 @50059 has 29 MA's),

Gene: Roksolana_105 Start: 51111, Stop: 51031, Start Num: 14

Candidate Starts for Roksolana_105:

(Start: 14 @51111 has 29 MA's),

Gene: Scherzo_97 Start: 51537, Stop: 51454, Start Num: 13

Candidate Starts for Scherzo_97:

(Start: 13 @51537 has 18 MA's), (17, 51513),

Gene: SheaKeira_93 Start: 50757, Stop: 50665, Start Num: 11

Candidate Starts for SheaKeira_93:

(Start: 11 @50757 has 2 MA's),

Gene: SmellyB_102 Start: 50563, Stop: 50483, Start Num: 14

Candidate Starts for SmellyB_102:

(Start: 14 @50563 has 29 MA's),

Gene: SororFago_97 Start: 51754, Stop: 51665, Start Num: 15

Candidate Starts for SororFago_97:

(Start: 15 @51754 has 15 MA's),

Gene: SuperAwesome_101 Start: 51056, Stop: 50976, Start Num: 14

Candidate Starts for SuperAwesome_101:

(Start: 14 @51056 has 29 MA's),

Gene: Superchunk_98 Start: 51262, Stop: 51158, Start Num: 10

Candidate Starts for Superchunk_98:

(1, 51382), (3, 51337), (6, 51295), (8, 51277), (Start: 10 @51262 has 1 MA's), (Start: 15 @51238 has 15 MA's), (18, 51166),

Gene: Topanga_76 Start: 46554, Stop: 46450, Start Num: 9

Candidate Starts for Topanga_76:

(Start: 9 @46554 has 17 MA's), (Start: 15 @46527 has 15 MA's),

Gene: Trooper_94 Start: 51019, Stop: 50912, Start Num: 9

Candidate Starts for Trooper_94:

(Start: 9 @51019 has 17 MA's), (Start: 15 @50995 has 15 MA's), (18, 50926),

Gene: Tubs_99 Start: 51496, Stop: 51413, Start Num: 13

Candidate Starts for Tubs_99:

(Start: 13 @51496 has 18 MA's), (17, 51472),

Gene: Tucker_103 Start: 50654, Stop: 50574, Start Num: 14

Candidate Starts for Tucker_103:

(Start: 14 @50654 has 29 MA's),

Gene: Twister_87 Start: 49768, Stop: 49664, Start Num: 9

Candidate Starts for Twister_87:

(Start: 9 @49768 has 17 MA's), (Start: 15 @49741 has 15 MA's),

Gene: VohminGhazi_102 Start: 50564, Stop: 50484, Start Num: 14

Candidate Starts for VohminGhazi_102:

(Start: 14 @50564 has 29 MA's),

Gene: WalterMcMickey_86 Start: 49768, Stop: 49664, Start Num: 9

Candidate Starts for WalterMcMickey_86:

(Start: 9 @49768 has 17 MA's), (Start: 15 @49741 has 15 MA's),

Gene: Wiks_102 Start: 50531, Stop: 50451, Start Num: 14

Candidate Starts for Wiks_102:

(Start: 14 @50531 has 29 MA's),

Gene: WunderPhul_91 Start: 47133, Stop: 47053, Start Num: 14

Candidate Starts for WunderPhul_91:

(Start: 14 @47133 has 29 MA's),

Gene: Yecey3_101 Start: 51604, Stop: 51491, Start Num: 9

Candidate Starts for Yecey3_101:

(4, 51655), (Start: 9 @51604 has 17 MA's), (12, 51577), (Start: 13 @51574 has 18 MA's),

Gene: Zaka_103 Start: 50531, Stop: 50451, Start Num: 14

Candidate Starts for Zaka_103:

(Start: 14 @50531 has 29 MA's),

Gene: Zimmer_90 Start: 51310, Stop: 51227, Start Num: 15

Candidate Starts for Zimmer_90:

(Start: 9 @51340 has 17 MA's), (Start: 15 @51310 has 15 MA's), (18, 51241),