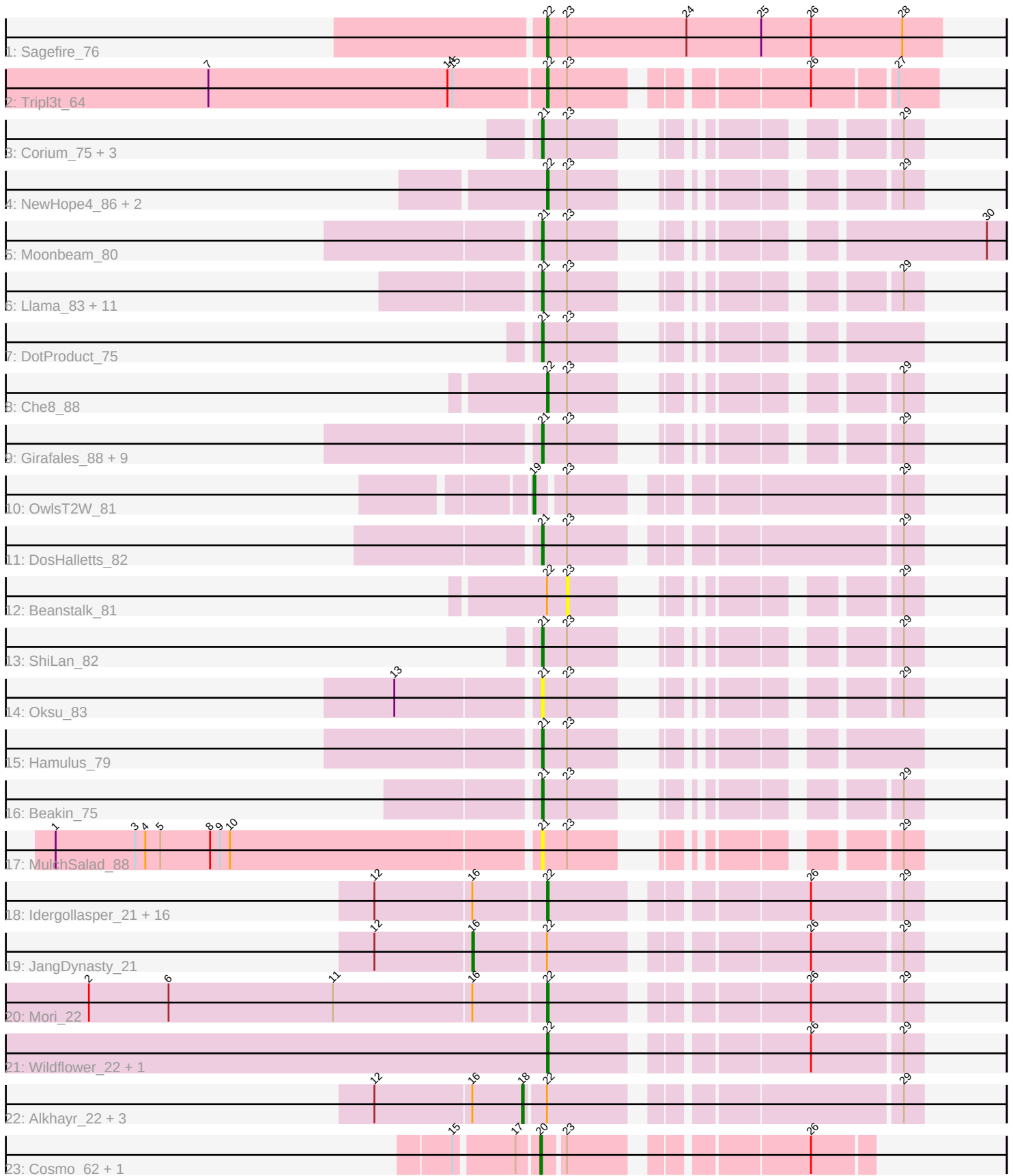


Pham 269551



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 269551 Report

This analysis was run 02/07/26 on database version 634.

Pham number 269551 has 69 members, 6 are drafts.

Phages represented in each track:

- Track 1 : Sagefire_76
- Track 2 : Tripl3t_64
- Track 3 : Corium_75, KingJulian_81, ThetaBob_81, PatoPoderoso_75
- Track 4 : NewHope4_86, LunaBlu_86, Polo2Bam_92
- Track 5 : Moonbeam_80
- Track 6 : Llama_83, OfUltron_84, Ochi17_82, Doug_79, Seabastian_84, Yorick_75, Alexphander_79, AlpineSix_83, Rialto_86, Modragons_81, RockyHorror_80, Jinglebell_83
- Track 7 : DotProduct_75
- Track 8 : Che8_88
- Track 9 : Girafales_88, Mattes_80, DillTech15_86, GUmbie_73, Phasih_75, Akhila_73, Zerg_77, Quico_88, MilanaBonita_72, Florinda_91
- Track 10 : OwlsT2W_81
- Track 11 : DosHalletts_82
- Track 12 : Beanstalk_81
- Track 13 : ShiLan_82
- Track 14 : Oksu_83
- Track 15 : Hamulus_79
- Track 16 : Beakin_75
- Track 17 : MulchSalad_88
- Track 18 : Idergollasper_21, Ryadel_24, Vorrips_22, Murai_22, FAMILTON_22, FoulBall_21, Winget_22, Zebo_21, Shida_22, Vagabond_22, Schuy_23, Catdawg_21, Firecracker_22, NiebruSaylor_22, Krili_22, Blessica_22, SchoolBus_21
- Track 19 : JangDynasty_21
- Track 20 : Mori_22
- Track 21 : Wildflower_22, Ashwin_23
- Track 22 : Alkhayr_22, MadKillah_23, Corndog_24, YungJamal_23
- Track 23 : Cosmo_62, Azrael100_61

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

The start number called the most often in the published annotations is 21, it was called in 30 of the 63 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Akhila_73, Alexphander_79, AlpineSix_83, Beakin_75, Corium_75, DillTech15_86, DosHalletts_82, DotProduct_75, Doug_79, Florinda_91, GUmbie_73, Girafales_88, Hamulus_79, Jinglebell_83, KingJulian_81, Llama_83, Mattes_80, MilanaBonita_72, Modragons_81, Moonbeam_80, MulchSalad_88, Ochi17_82, OfUltron_84, Oksu_83, PatoPoderoso_75, Phasih_75, Quico_88, Rialto_86, RockyHorror_80, Seabastian_84, ShiLan_82, ThetaBob_81, Yorick_75, Zerg_77,

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

-

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

- Alkhayr_22, Ashwin_23, Azrael100_61, Beanstalk_81, Blessica_22, Catdawg_21, Che8_88, Corndog_24, Cosmo_62, FAMILTON_22, Firecracker_22, FoulBall_21, Idergollasper_21, JangDynasty_21, Krili_22, LunaBlu_86, MadKillah_23, Mori_22, Murai_22, NewHope4_86, NiebruSaylor_22, OwlsT2W_81, Polo2Bam_92, Ryadel_24, Sagefire_76, SchoolBus_21, Schuy_23, Shida_22, Tripl3t_64, Vagabond_22, Vorrips_22, Wildflower_22, Winget_22, YungJamal_23, Zebo_21,

Summary by start number:

Start 16:

- Found in 23 of 69 (33.3%) of genes in pham
- Manual Annotations of this start: 1 of 63
- Called 4.3% of time when present
- Phage (with cluster) where this start called: JangDynasty_21 (O),

Start 18:

- Found in 4 of 69 (5.8%) of genes in pham
- Manual Annotations of this start: 4 of 63
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Alkhayr_22 (O), Corndog_24 (O), MadKillah_23 (O), YungJamal_23 (O),

Start 19:

- Found in 1 of 69 (1.4%) of genes in pham
- Manual Annotations of this start: 1 of 63
- Called 100.0% of time when present
- Phage (with cluster) where this start called: OwlsT2W_81 (F1),

Start 20:

- Found in 2 of 69 (2.9%) of genes in pham
- Manual Annotations of this start: 2 of 63
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Azrael100_61 (V), Cosmo_62 (V),

Start 21:

- Found in 34 of 69 (49.3%) of genes in pham
- Manual Annotations of this start: 30 of 63
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Akhila_73 (F1), Alexphander_79 (F1), AlpineSix_83 (F1), Beakin_75 (F1), Corium_75 (F1), DillTech15_86 (F1), DosHalletts_82 (F1), DotProduct_75 (F1), Doug_79 (F1), Florinda_91 (F1),

GUmbie_73 (F1), Girafales_88 (F1), Hamulus_79 (F1), Jinglebell_83 (F1), KingJulian_81 (F1), Llama_83 (F1), Mattes_80 (F1), MilanaBonita_72 (F1), Modragons_81 (F1), Moonbeam_80 (F1), MulchSalad_88 (F7), Ochi17_82 (F1), OfUltron_84 (F1), Oksu_83 (F1), PatoPoderoso_75 (F1), Phasih_75 (F1), Quico_88 (F1), Rialto_86 (F1), RockyHorror_80 (F1), Seabastian_84 (F1), ShiLan_82 (F1), ThetaBob_81 (F4), Yorick_75 (F1), Zerg_77 (F1),

Start 22:

- Found in 32 of 69 (46.4%) of genes in pham
- Manual Annotations of this start: 25 of 63
- Called 81.2% of time when present
- Phage (with cluster) where this start called: Ashwin_23 (O), Blessica_22 (O), Catdawg_21 (O), Che8_88 (F1), Familton_22 (O), Firecracker_22 (O), FoulBall_21 (O), Idergollasper_21 (O), Krili_22 (O), LunaBlu_86 (F1), Mori_22 (O), Murai_22 (O), NewHope4_86 (F1), NiebruSaylor_22 (O), Polo2Bam_92 (F1), Ryadel_24 (O), Sagefire_76 (A1), SchoolBus_21 (O), Schuy_23 (O), Shida_22 (O), Tripl3t_64 (A1), Vagabond_22 (O), Vorrps_22 (O), Wildflower_22 (O), Winget_22 (O), Zebo_21 (O),

Start 23:

- Found in 44 of 69 (63.8%) of genes in pham
- No Manual Annotations of this start.
- Called 2.3% of time when present
- Phage (with cluster) where this start called: Beanstalk_81 (F1),

Summary by clusters:

There are 6 clusters represented in this pham: F1, F4, F7, O, A1, V,

Info for manual annotations of cluster A1:

- Start number 22 was manually annotated 2 times for cluster A1.

Info for manual annotations of cluster F1:

- Start number 19 was manually annotated 1 time for cluster F1.
- Start number 21 was manually annotated 29 times for cluster F1.
- Start number 22 was manually annotated 3 times for cluster F1.

Info for manual annotations of cluster F4:

- Start number 21 was manually annotated 1 time for cluster F4.

Info for manual annotations of cluster O:

- Start number 16 was manually annotated 1 time for cluster O.
- Start number 18 was manually annotated 4 times for cluster O.
- Start number 22 was manually annotated 20 times for cluster O.

Info for manual annotations of cluster V:

- Start number 20 was manually annotated 2 times for cluster V.

Gene Information:

Gene: Akhila_73 Start: 46636, Stop: 46833, Start Num: 21

Candidate Starts for Akhila_73:

(Start: 21 @46636 has 30 MA's), (23, 46651), (29, 46822),

Gene: Alexphander_79 Start: 48647, Stop: 48805, Start Num: 21

Candidate Starts for Alexphander_79:

(Start: 21 @48647 has 30 MA's), (23, 48662), (29, 48794),

Gene: Alkhayr_22 Start: 10445, Stop: 10651, Start Num: 18

Candidate Starts for Alkhayr_22:

(12, 10358), (Start: 16 @10415 has 1 MA's), (Start: 18 @10445 has 4 MA's), (Start: 22 @10457 has 25 MA's), (29, 10640),

Gene: AlpineSix_83 Start: 48661, Stop: 48819, Start Num: 21

Candidate Starts for AlpineSix_83:

(Start: 21 @48661 has 30 MA's), (23, 48676), (29, 48808),

Gene: Ashwin_23 Start: 10677, Stop: 10871, Start Num: 22

Candidate Starts for Ashwin_23:

(Start: 22 @10677 has 25 MA's), (26, 10809), (29, 10860),

Gene: Azrael100_61 Start: 42662, Stop: 42829, Start Num: 20

Candidate Starts for Azrael100_61:

(15, 42617), (17, 42650), (Start: 20 @42662 has 2 MA's), (23, 42674), (26, 42794),

Gene: Beakin_75 Start: 45897, Stop: 46055, Start Num: 21

Candidate Starts for Beakin_75:

(Start: 21 @45897 has 30 MA's), (23, 45912), (29, 46044),

Gene: Beanstalk_81 Start: 48793, Stop: 48936, Start Num: 23

Candidate Starts for Beanstalk_81:

(Start: 22 @48781 has 25 MA's), (23, 48793), (29, 48925),

Gene: Blessica_22 Start: 10480, Stop: 10674, Start Num: 22

Candidate Starts for Blessica_22:

(12, 10381), (Start: 16 @10438 has 1 MA's), (Start: 22 @10480 has 25 MA's), (26, 10612), (29, 10663),

Gene: Catdawg_21 Start: 10086, Stop: 10280, Start Num: 22

Candidate Starts for Catdawg_21:

(12, 9987), (Start: 16 @10044 has 1 MA's), (Start: 22 @10086 has 25 MA's), (26, 10218), (29, 10269),

Gene: Che8_88 Start: 50516, Stop: 50671, Start Num: 22

Candidate Starts for Che8_88:

(Start: 22 @50516 has 25 MA's), (23, 50528), (29, 50660),

Gene: Corium_75 Start: 49154, Stop: 49312, Start Num: 21

Candidate Starts for Corium_75:

(Start: 21 @49154 has 30 MA's), (23, 49169), (29, 49301),

Gene: Corndog_24 Start: 10777, Stop: 10983, Start Num: 18

Candidate Starts for Corndog_24:

(12, 10690), (Start: 16 @10747 has 1 MA's), (Start: 18 @10777 has 4 MA's), (Start: 22 @10789 has 25 MA's), (29, 10972),

Gene: Cosmo_62 Start: 42663, Stop: 42830, Start Num: 20

Candidate Starts for Cosmo_62:

(15, 42618), (17, 42651), (Start: 20 @42663 has 2 MA's), (23, 42675), (26, 42795),

Gene: DillTech15_86 Start: 48634, Stop: 48792, Start Num: 21

Candidate Starts for DillTech15_86:

(Start: 21 @48634 has 30 MA's), (23, 48649), (29, 48781),

Gene: DosHalletts_82 Start: 49942, Stop: 50139, Start Num: 21

Candidate Starts for DosHalletts_82:

(Start: 21 @49942 has 30 MA's), (23, 49957), (29, 50128),

Gene: DotProduct_75 Start: 46947, Stop: 47108, Start Num: 21

Candidate Starts for DotProduct_75:

(Start: 21 @46947 has 30 MA's), (23, 46962),

Gene: Doug_79 Start: 49478, Stop: 49636, Start Num: 21

Candidate Starts for Doug_79:

(Start: 21 @49478 has 30 MA's), (23, 49493), (29, 49625),

Gene: Familton_22 Start: 10087, Stop: 10281, Start Num: 22

Candidate Starts for Familton_22:

(12, 9988), (Start: 16 @10045 has 1 MA's), (Start: 22 @10087 has 25 MA's), (26, 10219), (29, 10270),

Gene: Firecracker_22 Start: 10410, Stop: 10604, Start Num: 22

Candidate Starts for Firecracker_22:

(12, 10311), (Start: 16 @10368 has 1 MA's), (Start: 22 @10410 has 25 MA's), (26, 10542), (29, 10593),

Gene: Florinda_91 Start: 50859, Stop: 51017, Start Num: 21

Candidate Starts for Florinda_91:

(Start: 21 @50859 has 30 MA's), (23, 50874), (29, 51006),

Gene: FoulBall_21 Start: 10087, Stop: 10281, Start Num: 22

Candidate Starts for FoulBall_21:

(12, 9988), (Start: 16 @10045 has 1 MA's), (Start: 22 @10087 has 25 MA's), (26, 10219), (29, 10270),

Gene: GUmbie_73 Start: 47367, Stop: 47564, Start Num: 21

Candidate Starts for GUmbie_73:

(Start: 21 @47367 has 30 MA's), (23, 47382), (29, 47553),

Gene: Girafales_88 Start: 50464, Stop: 50622, Start Num: 21

Candidate Starts for Girafales_88:

(Start: 21 @50464 has 30 MA's), (23, 50479), (29, 50611),

Gene: Hamulus_79 Start: 48429, Stop: 48590, Start Num: 21

Candidate Starts for Hamulus_79:

(Start: 21 @48429 has 30 MA's), (23, 48444),

Gene: Idergollasper_21 Start: 10087, Stop: 10281, Start Num: 22

Candidate Starts for Idergollasper_21:

(12, 9988), (Start: 16 @10045 has 1 MA's), (Start: 22 @10087 has 25 MA's), (26, 10219), (29, 10270),

Gene: JangDynasty_21 Start: 10134, Stop: 10370, Start Num: 16

Candidate Starts for JangDynasty_21:

(12, 10077), (Start: 16 @10134 has 1 MA's), (Start: 22 @10176 has 25 MA's), (26, 10308), (29, 10359),

Gene: Jinglebell_83 Start: 48660, Stop: 48818, Start Num: 21

Candidate Starts for Jinglebell_83:

(Start: 21 @48660 has 30 MA's), (23, 48675), (29, 48807),

Gene: KingJulian_81 Start: 49154, Stop: 49312, Start Num: 21

Candidate Starts for KingJulian_81:

(Start: 21 @49154 has 30 MA's), (23, 49169), (29, 49301),

Gene: Krili_22 Start: 10446, Stop: 10640, Start Num: 22

Candidate Starts for Krili_22:

(12, 10347), (Start: 16 @10404 has 1 MA's), (Start: 22 @10446 has 25 MA's), (26, 10578), (29, 10629),

Gene: Llama_83 Start: 48516, Stop: 48674, Start Num: 21

Candidate Starts for Llama_83:

(Start: 21 @48516 has 30 MA's), (23, 48531), (29, 48663),

Gene: LunaBlu_86 Start: 50092, Stop: 50247, Start Num: 22

Candidate Starts for LunaBlu_86:

(Start: 22 @50092 has 25 MA's), (23, 50104), (29, 50236),

Gene: MadKillah_23 Start: 10467, Stop: 10673, Start Num: 18

Candidate Starts for MadKillah_23:

(12, 10380), (Start: 16 @10437 has 1 MA's), (Start: 18 @10467 has 4 MA's), (Start: 22 @10479 has 25 MA's), (29, 10662),

Gene: Mattes_80 Start: 49530, Stop: 49688, Start Num: 21

Candidate Starts for Mattes_80:

(Start: 21 @49530 has 30 MA's), (23, 49545), (29, 49677),

Gene: MilanaBonita_72 Start: 46636, Stop: 46833, Start Num: 21

Candidate Starts for MilanaBonita_72:

(Start: 21 @46636 has 30 MA's), (23, 46651), (29, 46822),

Gene: Modragons_81 Start: 48504, Stop: 48662, Start Num: 21

Candidate Starts for Modragons_81:

(Start: 21 @48504 has 30 MA's), (23, 48519), (29, 48651),

Gene: Moonbeam_80 Start: 48823, Stop: 49035, Start Num: 21

Candidate Starts for Moonbeam_80:

(Start: 21 @48823 has 30 MA's), (23, 48838), (30, 49024),

Gene: Mori_22 Start: 10317, Stop: 10511, Start Num: 22

Candidate Starts for Mori_22:

(2, 10047), (6, 10095), (11, 10194), (Start: 16 @10275 has 1 MA's), (Start: 22 @10317 has 25 MA's), (26, 10449), (29, 10500),

Gene: MulchSalad_88 Start: 50750, Stop: 50908, Start Num: 21

Candidate Starts for MulchSalad_88:

(1, 50465), (3, 50513), (4, 50519), (5, 50528), (8, 50558), (9, 50564), (10, 50570), (Start: 21 @50750 has 30 MA's), (23, 50765), (29, 50897),

Gene: Murai_22 Start: 10318, Stop: 10512, Start Num: 22

Candidate Starts for Murai_22:

(12, 10219), (Start: 16 @10276 has 1 MA's), (Start: 22 @10318 has 25 MA's), (26, 10450), (29, 10501),

Gene: NewHope4_86 Start: 48187, Stop: 48342, Start Num: 22

Candidate Starts for NewHope4_86:

(Start: 22 @48187 has 25 MA's), (23, 48199), (29, 48331),

Gene: NiebruSaylor_22 Start: 10318, Stop: 10512, Start Num: 22

Candidate Starts for NiebruSaylor_22:

(12, 10219), (Start: 16 @10276 has 1 MA's), (Start: 22 @10318 has 25 MA's), (26, 10450), (29, 10501),

Gene: Ochi17_82 Start: 48111, Stop: 48269, Start Num: 21

Candidate Starts for Ochi17_82:

(Start: 21 @48111 has 30 MA's), (23, 48126), (29, 48258),

Gene: OfUltron_84 Start: 48660, Stop: 48818, Start Num: 21

Candidate Starts for OfUltron_84:

(Start: 21 @48660 has 30 MA's), (23, 48675), (29, 48807),

Gene: Oksu_83 Start: 50171, Stop: 50329, Start Num: 21

Candidate Starts for Oksu_83:

(13, 50090), (Start: 21 @50171 has 30 MA's), (23, 50186), (29, 50318),

Gene: OwlsT2W_81 Start: 48507, Stop: 48704, Start Num: 19

Candidate Starts for OwlsT2W_81:

(Start: 19 @48507 has 1 MA's), (23, 48522), (29, 48693),

Gene: PatoPoderoso_75 Start: 49154, Stop: 49312, Start Num: 21

Candidate Starts for PatoPoderoso_75:

(Start: 21 @49154 has 30 MA's), (23, 49169), (29, 49301),

Gene: Phasih_75 Start: 47034, Stop: 47231, Start Num: 21

Candidate Starts for Phasih_75:

(Start: 21 @47034 has 30 MA's), (23, 47049), (29, 47220),

Gene: Polo2Bam_92 Start: 48041, Stop: 48196, Start Num: 22

Candidate Starts for Polo2Bam_92:

(Start: 22 @48041 has 25 MA's), (23, 48053), (29, 48185),

Gene: Quico_88 Start: 50679, Stop: 50837, Start Num: 21

Candidate Starts for Quico_88:

(Start: 21 @50679 has 30 MA's), (23, 50694), (29, 50826),

Gene: Rialto_86 Start: 49722, Stop: 49880, Start Num: 21

Candidate Starts for Rialto_86:

(Start: 21 @49722 has 30 MA's), (23, 49737), (29, 49869),

Gene: RockyHorror_80 Start: 47416, Stop: 47574, Start Num: 21

Candidate Starts for RockyHorror_80:

(Start: 21 @47416 has 30 MA's), (23, 47431), (29, 47563),

Gene: Ryadel_24 Start: 10900, Stop: 11094, Start Num: 22
Candidate Starts for Ryadel_24:
(12, 10801), (Start: 16 @10858 has 1 MA's), (Start: 22 @10900 has 25 MA's), (26, 11032), (29, 11083),

Gene: Sagefire_76 Start: 47621, Stop: 47385, Start Num: 22
Candidate Starts for Sagefire_76:
(Start: 22 @47621 has 25 MA's), (23, 47609), (24, 47537), (25, 47492), (26, 47462), (28, 47408),

Gene: SchoolBus_21 Start: 10087, Stop: 10281, Start Num: 22
Candidate Starts for SchoolBus_21:
(12, 9988), (Start: 16 @10045 has 1 MA's), (Start: 22 @10087 has 25 MA's), (26, 10219), (29, 10270),

Gene: Schuy_23 Start: 10479, Stop: 10673, Start Num: 22
Candidate Starts for Schuy_23:
(12, 10380), (Start: 16 @10437 has 1 MA's), (Start: 22 @10479 has 25 MA's), (26, 10611), (29, 10662),

Gene: Seabastian_84 Start: 48661, Stop: 48819, Start Num: 21
Candidate Starts for Seabastian_84:
(Start: 21 @48661 has 30 MA's), (23, 48676), (29, 48808),

Gene: ShiLan_82 Start: 51252, Stop: 51410, Start Num: 21
Candidate Starts for ShiLan_82:
(Start: 21 @51252 has 30 MA's), (23, 51267), (29, 51399),

Gene: Shida_22 Start: 10384, Stop: 10578, Start Num: 22
Candidate Starts for Shida_22:
(12, 10285), (Start: 16 @10342 has 1 MA's), (Start: 22 @10384 has 25 MA's), (26, 10516), (29, 10567),

Gene: ThetaBob_81 Start: 47961, Stop: 48119, Start Num: 21
Candidate Starts for ThetaBob_81:
(Start: 21 @47961 has 30 MA's), (23, 47976), (29, 48108),

Gene: Tripl3t_64 Start: 43397, Stop: 43197, Start Num: 22
Candidate Starts for Tripl3t_64:
(7, 43598), (14, 43454), (15, 43451), (Start: 22 @43397 has 25 MA's), (23, 43385), (26, 43265), (27, 43220),

Gene: Vagabond_22 Start: 10361, Stop: 10555, Start Num: 22
Candidate Starts for Vagabond_22:
(12, 10262), (Start: 16 @10319 has 1 MA's), (Start: 22 @10361 has 25 MA's), (26, 10493), (29, 10544),

Gene: Vorrps_22 Start: 10318, Stop: 10512, Start Num: 22
Candidate Starts for Vorrps_22:
(12, 10219), (Start: 16 @10276 has 1 MA's), (Start: 22 @10318 has 25 MA's), (26, 10450), (29, 10501),

Gene: Wildflower_22 Start: 10341, Stop: 10535, Start Num: 22
Candidate Starts for Wildflower_22:
(Start: 22 @10341 has 25 MA's), (26, 10473), (29, 10524),

Gene: Winget_22 Start: 10360, Stop: 10554, Start Num: 22
Candidate Starts for Winget_22:
(12, 10261), (Start: 16 @10318 has 1 MA's), (Start: 22 @10360 has 25 MA's), (26, 10492), (29, 10543),

Gene: Yorick_75 Start: 49351, Stop: 49509, Start Num: 21

Candidate Starts for Yorick_75:

(Start: 21 @49351 has 30 MA's), (23, 49366), (29, 49498),

Gene: YungJamal_23 Start: 10657, Stop: 10863, Start Num: 18

Candidate Starts for YungJamal_23:

(12, 10570), (Start: 16 @10627 has 1 MA's), (Start: 18 @10657 has 4 MA's), (Start: 22 @10669 has 25 MA's), (29, 10852),

Gene: Zebo_21 Start: 10087, Stop: 10281, Start Num: 22

Candidate Starts for Zebo_21:

(12, 9988), (Start: 16 @10045 has 1 MA's), (Start: 22 @10087 has 25 MA's), (26, 10219), (29, 10270),

Gene: Zerg_77 Start: 48070, Stop: 48228, Start Num: 21

Candidate Starts for Zerg_77:

(Start: 21 @48070 has 30 MA's), (23, 48085), (29, 48217),