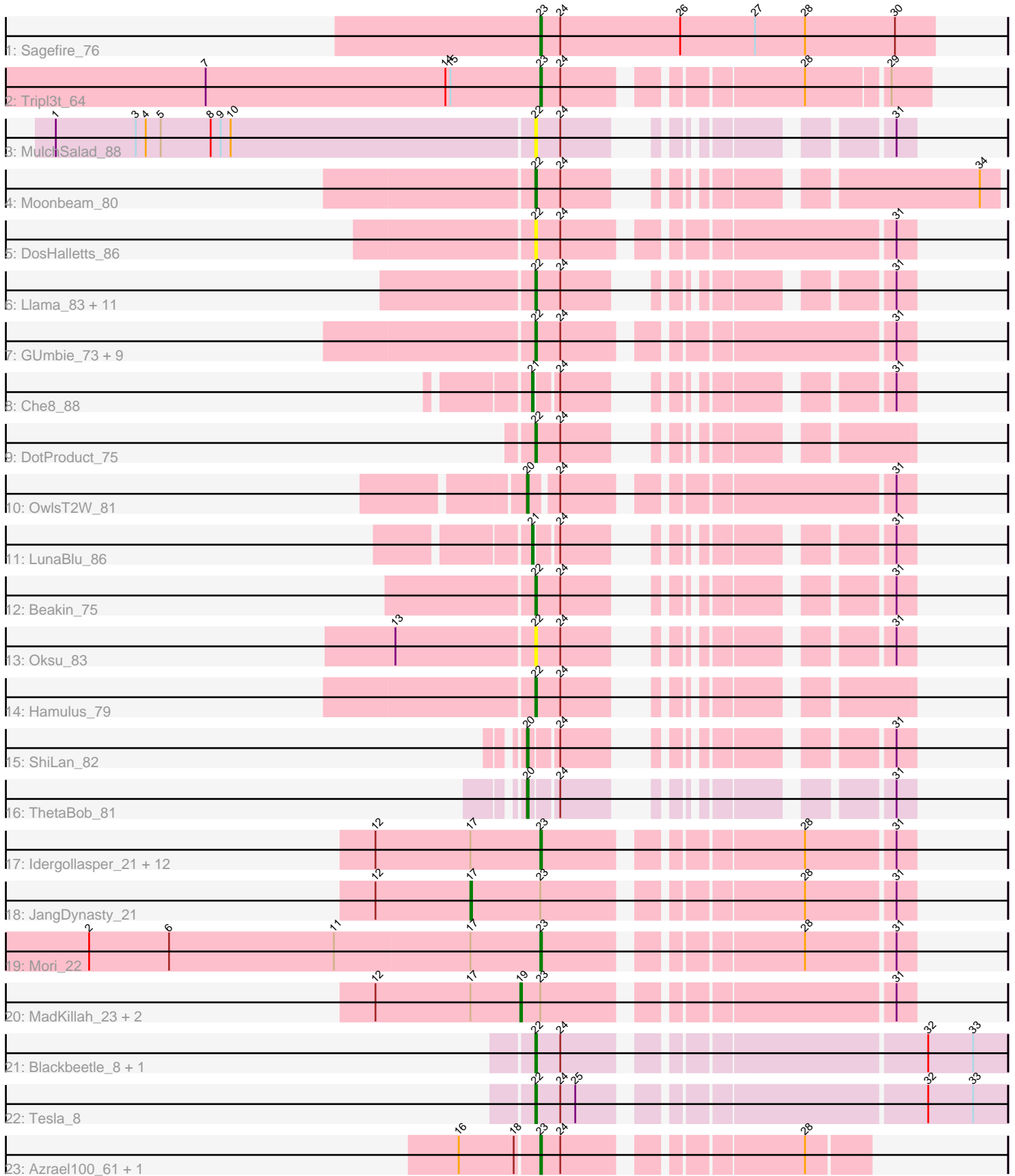


Pham 163628



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 163628 Report

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

Pham number 163628 has 59 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Sagefire_76
- Track 2 : Tripl3t_64
- Track 3 : MulchSalad_88
- Track 4 : Moonbeam_80
- Track 5 : DosHalletts_86
- 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_82
- Track 7 : GUmbie_73, Girafales_88, Florinda_91, Mattes_80, DillTech15_86, Phasih_75, Akhila_73, Zerg_77, Quico_88, MilanaBonita_72
- Track 8 : Che8_88
- Track 9 : DotProduct_75
- Track 10 : OwlsT2W_81
- Track 11 : LunaBlu_86
- Track 12 : Beakin_75
- Track 13 : Oksu_83
- Track 14 : Hamulus_79
- Track 15 : ShiLan_82
- Track 16 : ThetaBob_81
- Track 17 : Idergollasper_21, Ryadel_24, Vorrps_22, Murai_22, Winget_22, Shida_22, Catdawg_21, Firecracker_22, NiebruSaylor_22, Krili_22, Blessica_22, SchoolBus_21, Familton_22
- Track 18 : JangDynasty_21
- Track 19 : Mori_22
- Track 20 : MadKillah_23, Corndog_24, YungJamal_23
- Track 21 : Blackbeetle_8, Poise_8
- Track 22 : Tesla_8
- Track 23 : Azrael100_61, Cosmo_62

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

The start number called the most often in the published annotations is 22, it was called in 28 of the 55 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Akhila_73, Alexphander_79, AlpineSix_83, Beakin_75, Blackbeetle_8, DillTech15_86, DosHalletts_86, DotProduct_75, Doug_79, Florinda_91, GUmbie_73, Girafales_88, Hamulus_79, Jinglebell_82, Llama_83, Mattes_80, MilanaBonita_72, Modragons_81, Moonbeam_80, MulchSalad_88, Ochi17_82, OfUltron_84, Oksu_83, Phasih_75, Poise_8, Quico_88, Rialto_86, RockyHorror_80, Sebastian_84, Tesla_8, 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:

- Azrael100_61, Blessica_22, Catdawg_21, Che8_88, Corndog_24, Cosmo_62, Familton_22, Firecracker_22, Idergollasper_21, JangDynasty_21, Krili_22, LunaBlu_86, MadKillah_23, Mori_22, Murai_22, NiebruSaylor_22, OwlsT2W_81, Ryadel_24, Sagefire_76, SchoolBus_21, ShiLan_82, Shida_22, ThetaBob_81, Tripl3t_64, Vorrps_22, Winget_22, YungJamal_23,

Summary by start number:

Start 17:

- Found in 18 of 59 (30.5%) of genes in pham
- Manual Annotations of this start: 1 of 55
- Called 5.6% of time when present
- Phage (with cluster) where this start called: JangDynasty_21 (O),

Start 19:

- Found in 3 of 59 (5.1%) of genes in pham
- Manual Annotations of this start: 3 of 55
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Corndog_24 (O), MadKillah_23 (O), YungJamal_23 (O),

Start 20:

- Found in 3 of 59 (5.1%) of genes in pham
- Manual Annotations of this start: 3 of 55
- Called 100.0% of time when present
- Phage (with cluster) where this start called: OwlsT2W_81 (F1), ShiLan_82 (F1), ThetaBob_81 (F4),

Start 21:

- Found in 2 of 59 (3.4%) of genes in pham
- Manual Annotations of this start: 2 of 55
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Che8_88 (F1), LunaBlu_86 (F1),

Start 22:

- Found in 32 of 59 (54.2%) of genes in pham
- Manual Annotations of this start: 28 of 55
- 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), Blackbeetle_8 (S), DillTech15_86 (F1), DosHalletts_86 (F1), DotProduct_75 (F1), Doug_79 (F1), Florinda_91 (F1),

GUmbie_73 (F1), Girafales_88 (F1), Hamulus_79 (F1), Jinglebell_82 (F1), Llama_83 (F1), Mattes_80 (F1), MilanaBonita_72 (F1), Modragons_81 (F1), Moonbeam_80 (F1), MulchSalad_88 (F), Ochi17_82 (F1), OfUltron_84 (F1), Oksu_83 (F1), Phasih_75 (F1), Poise_8 (S), Quico_88 (F1), Rialto_86 (F1), RockyHorror_80 (F1), Sebastian_84 (F1), Tesla_8 (S), Yorick_75 (F1), Zerg_77 (F1),

Start 23:

- Found in 22 of 59 (37.3%) of genes in pham
- Manual Annotations of this start: 18 of 55
- Called 81.8% of time when present
- Phage (with cluster) where this start called: Azrael100_61 (V), Blessica_22 (O), Catdawg_21 (O), Cosmo_62 (V), Familton_22 (O), Firecracker_22 (O), Idergollasper_21 (O), Krili_22 (O), Mori_22 (O), Murai_22 (O), NiebruSaylor_22 (O), Ryadel_24 (O), Sagefire_76 (A1), SchoolBus_21 (O), Shida_22 (O), Tripl3t_64 (A1), Vorrs_22 (O), Winget_22 (O),

Summary by clusters:

There are 7 clusters represented in this pham: F1, F4, F, O, A1, S, V,

Info for manual annotations of cluster A1:

- Start number 23 was manually annotated 2 times for cluster A1.

Info for manual annotations of cluster F1:

- Start number 20 was manually annotated 2 times for cluster F1.
- Start number 21 was manually annotated 2 times for cluster F1.
- Start number 22 was manually annotated 25 times for cluster F1.

Info for manual annotations of cluster F4:

- Start number 20 was manually annotated 1 time for cluster F4.

Info for manual annotations of cluster O:

- Start number 17 was manually annotated 1 time for cluster O.
- Start number 19 was manually annotated 3 times for cluster O.
- Start number 23 was manually annotated 14 times for cluster O.

Info for manual annotations of cluster S:

- Start number 22 was manually annotated 3 times for cluster S.

Info for manual annotations of cluster V:

- Start number 23 was manually annotated 2 times for cluster V.

Gene Information:

Gene: Akhila_73 Start: 46636, Stop: 46833, Start Num: 22

Candidate Starts for Akhila_73:

(Start: 22 @46636 has 28 MA's), (24, 46651), (31, 46822),

Gene: Alexphander_79 Start: 48647, Stop: 48805, Start Num: 22

Candidate Starts for Alexphander_79:

(Start: 22 @48647 has 28 MA's), (24, 48662), (31, 48794),

Gene: AlpineSix_83 Start: 48661, Stop: 48819, Start Num: 22

Candidate Starts for AlpineSix_83:

(Start: 22 @48661 has 28 MA's), (24, 48676), (31, 48808),

Gene: Azrael100_61 Start: 42662, Stop: 42829, Start Num: 23

Candidate Starts for Azrael100_61:

(16, 42617), (18, 42650), (Start: 23 @42662 has 18 MA's), (24, 42674), (28, 42794),

Gene: Beakin_75 Start: 45897, Stop: 46055, Start Num: 22

Candidate Starts for Beakin_75:

(Start: 22 @45897 has 28 MA's), (24, 45912), (31, 46044),

Gene: Blackbeetle_8 Start: 2539, Stop: 2790, Start Num: 22

Candidate Starts for Blackbeetle_8:

(Start: 22 @2539 has 28 MA's), (24, 2554), (32, 2743), (33, 2770),

Gene: Blessica_22 Start: 10480, Stop: 10674, Start Num: 23

Candidate Starts for Blessica_22:

(12, 10381), (Start: 17 @10438 has 1 MA's), (Start: 23 @10480 has 18 MA's), (28, 10612), (31, 10663),

Gene: Catdawg_21 Start: 10086, Stop: 10280, Start Num: 23

Candidate Starts for Catdawg_21:

(12, 9987), (Start: 17 @10044 has 1 MA's), (Start: 23 @10086 has 18 MA's), (28, 10218), (31, 10269),

Gene: Che8_88 Start: 50516, Stop: 50671, Start Num: 21

Candidate Starts for Che8_88:

(Start: 21 @50516 has 2 MA's), (24, 50528), (31, 50660),

Gene: Corndog_24 Start: 10777, Stop: 10983, Start Num: 19

Candidate Starts for Corndog_24:

(12, 10690), (Start: 17 @10747 has 1 MA's), (Start: 19 @10777 has 3 MA's), (Start: 23 @10789 has 18 MA's), (31, 10972),

Gene: Cosmo_62 Start: 42663, Stop: 42830, Start Num: 23

Candidate Starts for Cosmo_62:

(16, 42618), (18, 42651), (Start: 23 @42663 has 18 MA's), (24, 42675), (28, 42795),

Gene: DillTech15_86 Start: 48634, Stop: 48792, Start Num: 22

Candidate Starts for DillTech15_86:

(Start: 22 @48634 has 28 MA's), (24, 48649), (31, 48781),

Gene: DosHalletts_86 Start: 49942, Stop: 50139, Start Num: 22

Candidate Starts for DosHalletts_86:

(Start: 22 @49942 has 28 MA's), (24, 49957), (31, 50128),

Gene: DotProduct_75 Start: 46947, Stop: 47108, Start Num: 22

Candidate Starts for DotProduct_75:

(Start: 22 @46947 has 28 MA's), (24, 46962),

Gene: Doug_79 Start: 49478, Stop: 49636, Start Num: 22

Candidate Starts for Doug_79:

(Start: 22 @49478 has 28 MA's), (24, 49493), (31, 49625),

Gene: Familton_22 Start: 10087, Stop: 10281, Start Num: 23

Candidate Starts for Familton_22:

(12, 9988), (Start: 17 @10045 has 1 MA's), (Start: 23 @10087 has 18 MA's), (28, 10219), (31, 10270),

Gene: Firecracker_22 Start: 10410, Stop: 10604, Start Num: 23

Candidate Starts for Firecracker_22:

(12, 10311), (Start: 17 @10368 has 1 MA's), (Start: 23 @10410 has 18 MA's), (28, 10542), (31, 10593),

Gene: Florinda_91 Start: 50859, Stop: 51017, Start Num: 22

Candidate Starts for Florinda_91:

(Start: 22 @50859 has 28 MA's), (24, 50874), (31, 51006),

Gene: GUmbie_73 Start: 47367, Stop: 47564, Start Num: 22

Candidate Starts for GUmbie_73:

(Start: 22 @47367 has 28 MA's), (24, 47382), (31, 47553),

Gene: Girafales_88 Start: 50464, Stop: 50622, Start Num: 22

Candidate Starts for Girafales_88:

(Start: 22 @50464 has 28 MA's), (24, 50479), (31, 50611),

Gene: Hamulus_79 Start: 48429, Stop: 48590, Start Num: 22

Candidate Starts for Hamulus_79:

(Start: 22 @48429 has 28 MA's), (24, 48444),

Gene: Idergollasper_21 Start: 10087, Stop: 10281, Start Num: 23

Candidate Starts for Idergollasper_21:

(12, 9988), (Start: 17 @10045 has 1 MA's), (Start: 23 @10087 has 18 MA's), (28, 10219), (31, 10270),

Gene: JangDynasty_21 Start: 10134, Stop: 10370, Start Num: 17

Candidate Starts for JangDynasty_21:

(12, 10077), (Start: 17 @10134 has 1 MA's), (Start: 23 @10176 has 18 MA's), (28, 10308), (31, 10359),

Gene: Jinglebell_82 Start: 48660, Stop: 48818, Start Num: 22

Candidate Starts for Jinglebell_82:

(Start: 22 @48660 has 28 MA's), (24, 48675), (31, 48807),

Gene: Krili_22 Start: 10446, Stop: 10640, Start Num: 23

Candidate Starts for Krili_22:

(12, 10347), (Start: 17 @10404 has 1 MA's), (Start: 23 @10446 has 18 MA's), (28, 10578), (31, 10629),

Gene: Llama_83 Start: 48516, Stop: 48674, Start Num: 22

Candidate Starts for Llama_83:

(Start: 22 @48516 has 28 MA's), (24, 48531), (31, 48663),

Gene: LunaBlu_86 Start: 50092, Stop: 50247, Start Num: 21

Candidate Starts for LunaBlu_86:

(Start: 21 @50092 has 2 MA's), (24, 50104), (31, 50236),

Gene: MadKillah_23 Start: 10467, Stop: 10673, Start Num: 19
Candidate Starts for MadKillah_23:
(12, 10380), (Start: 17 @10437 has 1 MA's), (Start: 19 @10467 has 3 MA's), (Start: 23 @10479 has 18 MA's), (31, 10662),

Gene: Mattes_80 Start: 49530, Stop: 49688, Start Num: 22
Candidate Starts for Mattes_80:
(Start: 22 @49530 has 28 MA's), (24, 49545), (31, 49677),

Gene: MilanaBonita_72 Start: 46636, Stop: 46833, Start Num: 22
Candidate Starts for MilanaBonita_72:
(Start: 22 @46636 has 28 MA's), (24, 46651), (31, 46822),

Gene: Modragons_81 Start: 48504, Stop: 48662, Start Num: 22
Candidate Starts for Modragons_81:
(Start: 22 @48504 has 28 MA's), (24, 48519), (31, 48651),

Gene: Moonbeam_80 Start: 48823, Stop: 49035, Start Num: 22
Candidate Starts for Moonbeam_80:
(Start: 22 @48823 has 28 MA's), (24, 48838), (34, 49024),

Gene: Mori_22 Start: 10317, Stop: 10511, Start Num: 23
Candidate Starts for Mori_22:
(2, 10047), (6, 10095), (11, 10194), (Start: 17 @10275 has 1 MA's), (Start: 23 @10317 has 18 MA's), (28, 10449), (31, 10500),

Gene: MulchSalad_88 Start: 50750, Stop: 50908, Start Num: 22
Candidate Starts for MulchSalad_88:
(1, 50465), (3, 50513), (4, 50519), (5, 50528), (8, 50558), (9, 50564), (10, 50570), (Start: 22 @50750 has 28 MA's), (24, 50765), (31, 50897),

Gene: Murai_22 Start: 10318, Stop: 10512, Start Num: 23
Candidate Starts for Murai_22:
(12, 10219), (Start: 17 @10276 has 1 MA's), (Start: 23 @10318 has 18 MA's), (28, 10450), (31, 10501),

Gene: NiebruSaylor_22 Start: 10318, Stop: 10512, Start Num: 23
Candidate Starts for NiebruSaylor_22:
(12, 10219), (Start: 17 @10276 has 1 MA's), (Start: 23 @10318 has 18 MA's), (28, 10450), (31, 10501),

Gene: Ochi17_82 Start: 48111, Stop: 48269, Start Num: 22
Candidate Starts for Ochi17_82:
(Start: 22 @48111 has 28 MA's), (24, 48126), (31, 48258),

Gene: OfUltron_84 Start: 48660, Stop: 48818, Start Num: 22
Candidate Starts for OfUltron_84:
(Start: 22 @48660 has 28 MA's), (24, 48675), (31, 48807),

Gene: Oksu_83 Start: 50171, Stop: 50329, Start Num: 22
Candidate Starts for Oksu_83:
(13, 50090), (Start: 22 @50171 has 28 MA's), (24, 50186), (31, 50318),

Gene: OwlsT2W_81 Start: 48507, Stop: 48704, Start Num: 20
Candidate Starts for OwlsT2W_81:
(Start: 20 @48507 has 3 MA's), (24, 48522), (31, 48693),

Gene: Phasih_75 Start: 47034, Stop: 47231, Start Num: 22
Candidate Starts for Phasih_75:
(Start: 22 @47034 has 28 MA's), (24, 47049), (31, 47220),

Gene: Poise_8 Start: 2539, Stop: 2790, Start Num: 22
Candidate Starts for Poise_8:
(Start: 22 @2539 has 28 MA's), (24, 2554), (32, 2743), (33, 2770),

Gene: Quico_88 Start: 50679, Stop: 50837, Start Num: 22
Candidate Starts for Quico_88:
(Start: 22 @50679 has 28 MA's), (24, 50694), (31, 50826),

Gene: Rialto_86 Start: 49722, Stop: 49880, Start Num: 22
Candidate Starts for Rialto_86:
(Start: 22 @49722 has 28 MA's), (24, 49737), (31, 49869),

Gene: RockyHorror_80 Start: 47416, Stop: 47574, Start Num: 22
Candidate Starts for RockyHorror_80:
(Start: 22 @47416 has 28 MA's), (24, 47431), (31, 47563),

Gene: Ryadel_24 Start: 10900, Stop: 11094, Start Num: 23
Candidate Starts for Ryadel_24:
(12, 10801), (Start: 17 @10858 has 1 MA's), (Start: 23 @10900 has 18 MA's), (28, 11032), (31, 11083),

Gene: Sagefire_76 Start: 47621, Stop: 47385, Start Num: 23
Candidate Starts for Sagefire_76:
(Start: 23 @47621 has 18 MA's), (24, 47609), (26, 47537), (27, 47492), (28, 47462), (30, 47408),

Gene: SchoolBus_21 Start: 10087, Stop: 10281, Start Num: 23
Candidate Starts for SchoolBus_21:
(12, 9988), (Start: 17 @10045 has 1 MA's), (Start: 23 @10087 has 18 MA's), (28, 10219), (31, 10270),

Gene: Seabastian_84 Start: 48661, Stop: 48819, Start Num: 22
Candidate Starts for Seabastian_84:
(Start: 22 @48661 has 28 MA's), (24, 48676), (31, 48808),

Gene: ShiLan_82 Start: 51252, Stop: 51410, Start Num: 20
Candidate Starts for ShiLan_82:
(Start: 20 @51252 has 3 MA's), (24, 51267), (31, 51399),

Gene: Shida_22 Start: 10384, Stop: 10578, Start Num: 23
Candidate Starts for Shida_22:
(12, 10285), (Start: 17 @10342 has 1 MA's), (Start: 23 @10384 has 18 MA's), (28, 10516), (31, 10567),

Gene: Tesla_8 Start: 2530, Stop: 2781, Start Num: 22
Candidate Starts for Tesla_8:

(Start: 22 @2530 has 28 MA's), (24, 2545), (25, 2554), (32, 2734), (33, 2761),

Gene: ThetaBob_81 Start: 47961, Stop: 48119, Start Num: 20

Candidate Starts for ThetaBob_81:

(Start: 20 @47961 has 3 MA's), (24, 47976), (31, 48108),

Gene: Tripl3t_64 Start: 43397, Stop: 43197, Start Num: 23

Candidate Starts for Tripl3t_64:

(7, 43598), (14, 43454), (15, 43451), (Start: 23 @43397 has 18 MA's), (24, 43385), (28, 43265), (29, 43220),

Gene: Vorrps_22 Start: 10318, Stop: 10512, Start Num: 23

Candidate Starts for Vorrps_22:

(12, 10219), (Start: 17 @10276 has 1 MA's), (Start: 23 @10318 has 18 MA's), (28, 10450), (31, 10501),

Gene: Winget_22 Start: 10360, Stop: 10554, Start Num: 23

Candidate Starts for Winget_22:

(12, 10261), (Start: 17 @10318 has 1 MA's), (Start: 23 @10360 has 18 MA's), (28, 10492), (31, 10543),

Gene: Yorick_75 Start: 49351, Stop: 49509, Start Num: 22

Candidate Starts for Yorick_75:

(Start: 22 @49351 has 28 MA's), (24, 49366), (31, 49498),

Gene: YungJamal_23 Start: 10657, Stop: 10863, Start Num: 19

Candidate Starts for YungJamal_23:

(12, 10570), (Start: 17 @10627 has 1 MA's), (Start: 19 @10657 has 3 MA's), (Start: 23 @10669 has 18 MA's), (31, 10852),

Gene: Zerg_77 Start: 48070, Stop: 48228, Start Num: 22

Candidate Starts for Zerg_77:

(Start: 22 @48070 has 28 MA's), (24, 48085), (31, 48217),