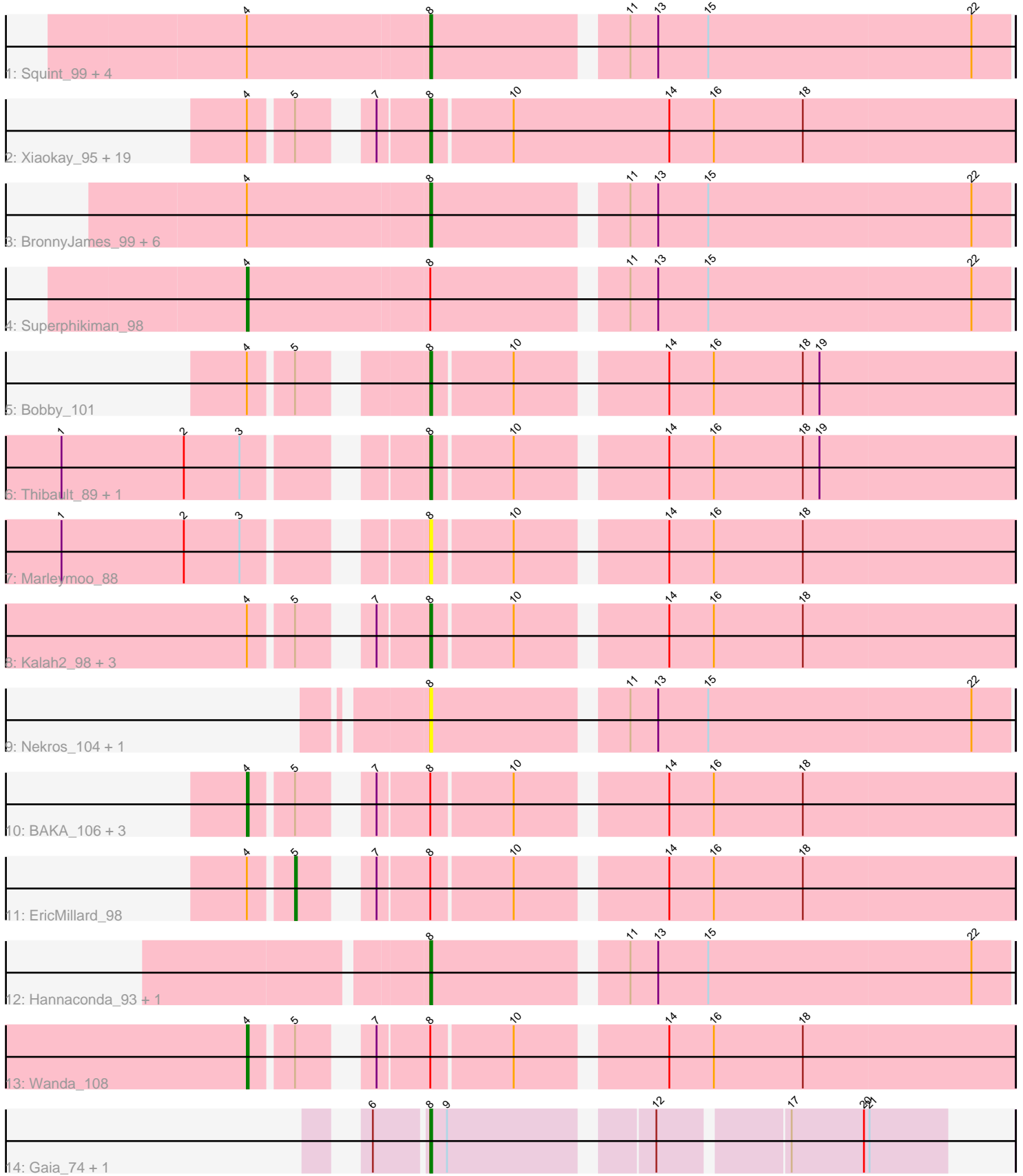


Pham 308725



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 308725 Report

This analysis was run 06/27/26 on database version 652.

Pham number 308725 has 53 members, 11 are drafts.

Phages represented in each track:

- Track 1 : Squint_99, MiaZeal_101, Courthouse_96, Ariel_101, Porcelain_99
- Track 2 : Xiaokay_95, Hidrated_92, Beem_106, NihilNomen_106, Bombitas_93, Ejimix_98, Odette_105, Dove_90, Pound_97, Yeet_97, Optimus_98, Redno2_96, Schatzie_99, DmpstrDiver_106, Bagrid_106, Constella_90, Duke13_101, Hughesyang_104, Dallas_106, Phoebus_106
- Track 3 : BronnyJames_99, Shaboozey_99, Lucky2013_98, Gonephishing_95, LittleE_105, Nibley_94, Omega_111
- Track 4 : Superphikiman_98
- Track 5 : Bobby_101
- Track 6 : Thibault_89, HokkenD_94
- Track 7 : Marleymoo_88
- Track 8 : Kalah2_98, Zelink_101, Klein_105, ThreeRngTarjay_101
- Track 9 : Nekros_104, Rearden_95
- Track 10 : BAKA_106, Minerva_104, JuicyJay_101, Halley_106
- Track 11 : EricMillard_98
- Track 12 : Hannaconda_93, KashFlow_98
- Track 13 : Wanda_108
- Track 14 : Gaia_74, Nebkiss_73

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

The start number called the most often in the published annotations is 8, it was called in 35 of the 42 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ariel_101, Bagrid_106, Beem_106, Bobby_101, Bombitas_93, BronnyJames_99, Constella_90, Courthouse_96, Dallas_106, DmpstrDiver_106, Dove_90, Duke13_101, Ejimix_98, Gaia_74, Gonephishing_95, Hannaconda_93, Hidrated_92, HokkenD_94, Hughesyang_104, Kalah2_98, KashFlow_98, Klein_105, LittleE_105, Lucky2013_98, Marleymoo_88, MiaZeal_101, Nebkiss_73, Nekros_104, Nibley_94, NihilNomen_106, Odette_105, Omega_111, Optimus_98, Phoebus_106, Porcelain_99, Pound_97, Rearden_95, Redno2_96, Schatzie_99, Shaboozey_99, Squint_99, Thibault_89, ThreeRngTarjay_101, Xiaokay_95, Yeet_97, Zelink_101,

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

- BAKA_106, EricMillard_98, Halley_106, JuicyJay_101, Minerva_104, Superphikiman_98, Wanda_108,

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

-

Summary by start number:

Start 4:

- Found in 44 of 53 (83.0%) of genes in pham
- Manual Annotations of this start: 6 of 42
- Called 13.6% of time when present
- Phage (with cluster) where this start called: BAKA_106 (J), Halley_106 (J), JuicyJay_101 (J), Minerva_104 (J), Superphikiman_98 (J), Wanda_108 (J),

Start 5:

- Found in 31 of 53 (58.5%) of genes in pham
- Manual Annotations of this start: 1 of 42
- Called 3.2% of time when present
- Phage (with cluster) where this start called: EricMillard_98 (J),

Start 8:

- Found in 53 of 53 (100.0%) of genes in pham
- Manual Annotations of this start: 35 of 42
- Called 86.8% of time when present
- Phage (with cluster) where this start called: Ariel_101 (J), Bagrid_106 (J), Beem_106 (J), Bobby_101 (J), Bombitas_93 (J), BronnyJames_99 (J), Constella_90 (J), Courthouse_96 (J), Dallas_106 (J), DmpstrDiver_106 (J), Dove_90 (J), Duke13_101 (J), Ejimix_98 (J), Gaia_74 (X), Gonephishing_95 (J), Hannaconda_93 (J), Hidrated_92 (J), HokkenD_94 (J), Hughesyang_104 (J), Kalah2_98 (J), KashFlow_98 (J), Klein_105 (J), LittleE_105 (J), Lucky2013_98 (J), Marleymoo_88 (J), MiaZeal_101 (J), Nebkiss_73 (X), Nekros_104 (J), Nibley_94 (J), NihilNomen_106 (J), Odette_105 (J), Omega_111 (J), Optimus_98 (J), Phoebus_106 (J), Porcelain_99 (J), Pound_97 (J), Rearden_95 (J), Redno2_96 (J), Schatzie_99 (J), Shaboozey_99 (J), Squint_99 (J), Thibault_89 (J), ThreeRngTarjay_101 (J), Xiaokay_95 (J), Yeet_97 (J), Zelink_101 (J),

Summary by clusters:

There are 2 clusters represented in this pham: X, J,

Info for manual annotations of cluster J:

- Start number 4 was manually annotated 6 times for cluster J.
- Start number 5 was manually annotated 1 time for cluster J.
- Start number 8 was manually annotated 33 times for cluster J.

Info for manual annotations of cluster X:

- Start number 8 was manually annotated 2 times for cluster X.

Gene Information:

Gene: Ariel_101 Start: 57294, Stop: 57593, Start Num: 8
Candidate Starts for Ariel_101:
(Start: 4 @57198 has 6 MA's), (Start: 8 @57294 has 35 MA's), (11, 57390), (13, 57405), (15, 57432),
(22, 57573),

Gene: BAKA_106 Start: 62770, Stop: 63144, Start Num: 4
Candidate Starts for BAKA_106:
(Start: 4 @62770 has 6 MA's), (Start: 5 @62791 has 1 MA's), (7, 62818), (Start: 8 @62845 has 35
MA's), (10, 62887), (14, 62959), (16, 62983), (18, 63031),

Gene: Bagrid_106 Start: 61712, Stop: 62011, Start Num: 8
Candidate Starts for Bagrid_106:
(Start: 4 @61637 has 6 MA's), (Start: 5 @61658 has 1 MA's), (7, 61685), (Start: 8 @61712 has 35
MA's), (10, 61754), (14, 61826), (16, 61850), (18, 61898),

Gene: Beem_106 Start: 62573, Stop: 62872, Start Num: 8
Candidate Starts for Beem_106:
(Start: 4 @62498 has 6 MA's), (Start: 5 @62519 has 1 MA's), (7, 62546), (Start: 8 @62573 has 35
MA's), (10, 62615), (14, 62687), (16, 62711), (18, 62759),

Gene: Bobby_101 Start: 64438, Stop: 64737, Start Num: 8
Candidate Starts for Bobby_101:
(Start: 4 @64363 has 6 MA's), (Start: 5 @64384 has 1 MA's), (Start: 8 @64438 has 35 MA's), (10,
64480), (14, 64552), (16, 64576), (18, 64624), (19, 64633),

Gene: Bombitas_93 Start: 59736, Stop: 60035, Start Num: 8
Candidate Starts for Bombitas_93:
(Start: 4 @59661 has 6 MA's), (Start: 5 @59682 has 1 MA's), (7, 59709), (Start: 8 @59736 has 35
MA's), (10, 59778), (14, 59850), (16, 59874), (18, 59922),

Gene: BronnyJames_99 Start: 57768, Stop: 58067, Start Num: 8
Candidate Starts for BronnyJames_99:
(Start: 4 @57672 has 6 MA's), (Start: 8 @57768 has 35 MA's), (11, 57864), (13, 57879), (15, 57906),
(22, 58047),

Gene: Constella_90 Start: 56739, Stop: 57050, Start Num: 8
Candidate Starts for Constella_90:
(Start: 4 @56664 has 6 MA's), (Start: 5 @56685 has 1 MA's), (7, 56712), (Start: 8 @56739 has 35
MA's), (10, 56781), (14, 56865), (16, 56889), (18, 56937),

Gene: Courthouse_96 Start: 56894, Stop: 57193, Start Num: 8
Candidate Starts for Courthouse_96:
(Start: 4 @56798 has 6 MA's), (Start: 8 @56894 has 35 MA's), (11, 56990), (13, 57005), (15, 57032),
(22, 57173),

Gene: Dallas_106 Start: 62581, Stop: 62880, Start Num: 8
Candidate Starts for Dallas_106:
(Start: 4 @62506 has 6 MA's), (Start: 5 @62527 has 1 MA's), (7, 62554), (Start: 8 @62581 has 35
MA's), (10, 62623), (14, 62695), (16, 62719), (18, 62767),

Gene: DmpstrDiver_106 Start: 62001, Stop: 62300, Start Num: 8
Candidate Starts for DmpstrDiver_106:

(Start: 4 @61926 has 6 MA's), (Start: 5 @61947 has 1 MA's), (7, 61974), (Start: 8 @62001 has 35 MA's), (10, 62043), (14, 62115), (16, 62139), (18, 62187),

Gene: Dove_90 Start: 58002, Stop: 58301, Start Num: 8

Candidate Starts for Dove_90:

(Start: 4 @57927 has 6 MA's), (Start: 5 @57948 has 1 MA's), (7, 57975), (Start: 8 @58002 has 35 MA's), (10, 58044), (14, 58116), (16, 58140), (18, 58188),

Gene: Duke13_101 Start: 60513, Stop: 60812, Start Num: 8

Candidate Starts for Duke13_101:

(Start: 4 @60438 has 6 MA's), (Start: 5 @60459 has 1 MA's), (7, 60486), (Start: 8 @60513 has 35 MA's), (10, 60555), (14, 60627), (16, 60651), (18, 60699),

Gene: Ejimix_98 Start: 62300, Stop: 62599, Start Num: 8

Candidate Starts for Ejimix_98:

(Start: 4 @62225 has 6 MA's), (Start: 5 @62246 has 1 MA's), (7, 62273), (Start: 8 @62300 has 35 MA's), (10, 62342), (14, 62414), (16, 62438), (18, 62486),

Gene: EricMillard_98 Start: 61587, Stop: 61940, Start Num: 5

Candidate Starts for EricMillard_98:

(Start: 4 @61566 has 6 MA's), (Start: 5 @61587 has 1 MA's), (7, 61614), (Start: 8 @61641 has 35 MA's), (10, 61683), (14, 61755), (16, 61779), (18, 61827),

Gene: Gaia_74 Start: 47814, Stop: 48068, Start Num: 8

Candidate Starts for Gaia_74:

(6, 47787), (Start: 8 @47814 has 35 MA's), (9, 47823), (12, 47922), (17, 47985), (20, 48024), (21, 48027),

Gene: Gonephishing_95 Start: 56451, Stop: 56750, Start Num: 8

Candidate Starts for Gonephishing_95:

(Start: 4 @56355 has 6 MA's), (Start: 8 @56451 has 35 MA's), (11, 56547), (13, 56562), (15, 56589), (22, 56730),

Gene: Halley_106 Start: 62499, Stop: 62873, Start Num: 4

Candidate Starts for Halley_106:

(Start: 4 @62499 has 6 MA's), (Start: 5 @62520 has 1 MA's), (7, 62547), (Start: 8 @62574 has 35 MA's), (10, 62616), (14, 62688), (16, 62712), (18, 62760),

Gene: Hannaconda_93 Start: 56128, Stop: 56427, Start Num: 8

Candidate Starts for Hannaconda_93:

(Start: 8 @56128 has 35 MA's), (11, 56224), (13, 56239), (15, 56266), (22, 56407),

Gene: Hidrated_92 Start: 60472, Stop: 60783, Start Num: 8

Candidate Starts for Hidrated_92:

(Start: 4 @60397 has 6 MA's), (Start: 5 @60418 has 1 MA's), (7, 60445), (Start: 8 @60472 has 35 MA's), (10, 60514), (14, 60598), (16, 60622), (18, 60670),

Gene: HokkenD_94 Start: 60842, Stop: 61141, Start Num: 8

Candidate Starts for HokkenD_94:

(1, 60668), (2, 60734), (3, 60764), (Start: 8 @60842 has 35 MA's), (10, 60884), (14, 60956), (16, 60980), (18, 61028), (19, 61037),

Gene: Hughesyang_104 Start: 62532, Stop: 62831, Start Num: 8

Candidate Starts for Hughesyang_104:

(Start: 4 @62457 has 6 MA's), (Start: 5 @62478 has 1 MA's), (7, 62505), (Start: 8 @62532 has 35 MA's), (10, 62574), (14, 62646), (16, 62670), (18, 62718),

Gene: JuicyJay_101 Start: 63633, Stop: 64007, Start Num: 4

Candidate Starts for JuicyJay_101:

(Start: 4 @63633 has 6 MA's), (Start: 5 @63654 has 1 MA's), (7, 63681), (Start: 8 @63708 has 35 MA's), (10, 63750), (14, 63822), (16, 63846), (18, 63894),

Gene: Kalah2_98 Start: 61867, Stop: 62166, Start Num: 8

Candidate Starts for Kalah2_98:

(Start: 4 @61792 has 6 MA's), (Start: 5 @61813 has 1 MA's), (7, 61840), (Start: 8 @61867 has 35 MA's), (10, 61909), (14, 61981), (16, 62005), (18, 62053),

Gene: KashFlow_98 Start: 57692, Stop: 57991, Start Num: 8

Candidate Starts for KashFlow_98:

(Start: 8 @57692 has 35 MA's), (11, 57788), (13, 57803), (15, 57830), (22, 57971),

Gene: Klein_105 Start: 61574, Stop: 61873, Start Num: 8

Candidate Starts for Klein_105:

(Start: 4 @61499 has 6 MA's), (Start: 5 @61520 has 1 MA's), (7, 61547), (Start: 8 @61574 has 35 MA's), (10, 61616), (14, 61688), (16, 61712), (18, 61760),

Gene: LittleE_105 Start: 60988, Stop: 61287, Start Num: 8

Candidate Starts for LittleE_105:

(Start: 4 @60892 has 6 MA's), (Start: 8 @60988 has 35 MA's), (11, 61084), (13, 61099), (15, 61126), (22, 61267),

Gene: Lucky2013_98 Start: 57311, Stop: 57610, Start Num: 8

Candidate Starts for Lucky2013_98:

(Start: 4 @57215 has 6 MA's), (Start: 8 @57311 has 35 MA's), (11, 57407), (13, 57422), (15, 57449), (22, 57590),

Gene: Marleymoo_88 Start: 58725, Stop: 59024, Start Num: 8

Candidate Starts for Marleymoo_88:

(1, 58551), (2, 58617), (3, 58647), (Start: 8 @58725 has 35 MA's), (10, 58767), (14, 58839), (16, 58863), (18, 58911),

Gene: MiaZeal_101 Start: 57966, Stop: 58265, Start Num: 8

Candidate Starts for MiaZeal_101:

(Start: 4 @57870 has 6 MA's), (Start: 8 @57966 has 35 MA's), (11, 58062), (13, 58077), (15, 58104), (22, 58245),

Gene: Minerva_104 Start: 62444, Stop: 62818, Start Num: 4

Candidate Starts for Minerva_104:

(Start: 4 @62444 has 6 MA's), (Start: 5 @62465 has 1 MA's), (7, 62492), (Start: 8 @62519 has 35 MA's), (10, 62561), (14, 62633), (16, 62657), (18, 62705),

Gene: Nebkiss_73 Start: 46425, Stop: 46679, Start Num: 8

Candidate Starts for Nebkiss_73:

(6, 46398), (Start: 8 @46425 has 35 MA's), (9, 46434), (12, 46533), (17, 46596), (20, 46635), (21, 46638),

Gene: Nekros_104 Start: 60924, Stop: 61223, Start Num: 8
Candidate Starts for Nekros_104:
(Start: 8 @60924 has 35 MA's), (11, 61020), (13, 61035), (15, 61062), (22, 61203),

Gene: Nibley_94 Start: 57345, Stop: 57644, Start Num: 8
Candidate Starts for Nibley_94:
(Start: 4 @57249 has 6 MA's), (Start: 8 @57345 has 35 MA's), (11, 57441), (13, 57456), (15, 57483),
(22, 57624),

Gene: NihilNomen_106 Start: 62660, Stop: 62959, Start Num: 8
Candidate Starts for NihilNomen_106:
(Start: 4 @62585 has 6 MA's), (Start: 5 @62606 has 1 MA's), (7, 62633), (Start: 8 @62660 has 35
MA's), (10, 62702), (14, 62774), (16, 62798), (18, 62846),

Gene: Odette_105 Start: 61703, Stop: 62002, Start Num: 8
Candidate Starts for Odette_105:
(Start: 4 @61628 has 6 MA's), (Start: 5 @61649 has 1 MA's), (7, 61676), (Start: 8 @61703 has 35
MA's), (10, 61745), (14, 61817), (16, 61841), (18, 61889),

Gene: Omega_111 Start: 62764, Stop: 63063, Start Num: 8
Candidate Starts for Omega_111:
(Start: 4 @62668 has 6 MA's), (Start: 8 @62764 has 35 MA's), (11, 62860), (13, 62875), (15, 62902),
(22, 63043),

Gene: Optimus_98 Start: 61194, Stop: 61493, Start Num: 8
Candidate Starts for Optimus_98:
(Start: 4 @61119 has 6 MA's), (Start: 5 @61140 has 1 MA's), (7, 61167), (Start: 8 @61194 has 35
MA's), (10, 61236), (14, 61308), (16, 61332), (18, 61380),

Gene: Phoebus_106 Start: 63843, Stop: 64142, Start Num: 8
Candidate Starts for Phoebus_106:
(Start: 4 @63768 has 6 MA's), (Start: 5 @63789 has 1 MA's), (7, 63816), (Start: 8 @63843 has 35
MA's), (10, 63885), (14, 63957), (16, 63981), (18, 64029),

Gene: Porcelain_99 Start: 57966, Stop: 58265, Start Num: 8
Candidate Starts for Porcelain_99:
(Start: 4 @57870 has 6 MA's), (Start: 8 @57966 has 35 MA's), (11, 58062), (13, 58077), (15, 58104),
(22, 58245),

Gene: Pound_97 Start: 61871, Stop: 62170, Start Num: 8
Candidate Starts for Pound_97:
(Start: 4 @61796 has 6 MA's), (Start: 5 @61817 has 1 MA's), (7, 61844), (Start: 8 @61871 has 35
MA's), (10, 61913), (14, 61985), (16, 62009), (18, 62057),

Gene: Rearden_95 Start: 58144, Stop: 58443, Start Num: 8
Candidate Starts for Rearden_95:
(Start: 8 @58144 has 35 MA's), (11, 58240), (13, 58255), (15, 58282), (22, 58423),

Gene: Redno2_96 Start: 58394, Stop: 58693, Start Num: 8
Candidate Starts for Redno2_96:
(Start: 4 @58319 has 6 MA's), (Start: 5 @58340 has 1 MA's), (7, 58367), (Start: 8 @58394 has 35
MA's), (10, 58436), (14, 58508), (16, 58532), (18, 58580),

Gene: Schatzie_99 Start: 61450, Stop: 61749, Start Num: 8
Candidate Starts for Schatzie_99:
(Start: 4 @61375 has 6 MA's), (Start: 5 @61396 has 1 MA's), (7, 61423), (Start: 8 @61450 has 35 MA's), (10, 61492), (14, 61564), (16, 61588), (18, 61636),

Gene: Shaboozey_99 Start: 57789, Stop: 58088, Start Num: 8
Candidate Starts for Shaboozey_99:
(Start: 4 @57693 has 6 MA's), (Start: 8 @57789 has 35 MA's), (11, 57885), (13, 57900), (15, 57927), (22, 58068),

Gene: Squint_99 Start: 58085, Stop: 58384, Start Num: 8
Candidate Starts for Squint_99:
(Start: 4 @57989 has 6 MA's), (Start: 8 @58085 has 35 MA's), (11, 58181), (13, 58196), (15, 58223), (22, 58364),

Gene: Superphikiman_98 Start: 57080, Stop: 57475, Start Num: 4
Candidate Starts for Superphikiman_98:
(Start: 4 @57080 has 6 MA's), (Start: 8 @57176 has 35 MA's), (11, 57272), (13, 57287), (15, 57314), (22, 57455),

Gene: Thibault_89 Start: 57355, Stop: 57654, Start Num: 8
Candidate Starts for Thibault_89:
(1, 57181), (2, 57247), (3, 57277), (Start: 8 @57355 has 35 MA's), (10, 57397), (14, 57469), (16, 57493), (18, 57541), (19, 57550),

Gene: ThreeRngTarjay_101 Start: 62735, Stop: 63034, Start Num: 8
Candidate Starts for ThreeRngTarjay_101:
(Start: 4 @62660 has 6 MA's), (Start: 5 @62681 has 1 MA's), (7, 62708), (Start: 8 @62735 has 35 MA's), (10, 62777), (14, 62849), (16, 62873), (18, 62921),

Gene: Wanda_108 Start: 61776, Stop: 62150, Start Num: 4
Candidate Starts for Wanda_108:
(Start: 4 @61776 has 6 MA's), (Start: 5 @61797 has 1 MA's), (7, 61824), (Start: 8 @61851 has 35 MA's), (10, 61893), (14, 61965), (16, 61989), (18, 62037),

Gene: Xiaokay_95 Start: 58613, Stop: 58924, Start Num: 8
Candidate Starts for Xiaokay_95:
(Start: 4 @58538 has 6 MA's), (Start: 5 @58559 has 1 MA's), (7, 58586), (Start: 8 @58613 has 35 MA's), (10, 58655), (14, 58739), (16, 58763), (18, 58811),

Gene: Yeet_97 Start: 60952, Stop: 61251, Start Num: 8
Candidate Starts for Yeet_97:
(Start: 4 @60877 has 6 MA's), (Start: 5 @60898 has 1 MA's), (7, 60925), (Start: 8 @60952 has 35 MA's), (10, 60994), (14, 61066), (16, 61090), (18, 61138),

Gene: Zelink_101 Start: 63046, Stop: 63345, Start Num: 8
Candidate Starts for Zelink_101:
(Start: 4 @62971 has 6 MA's), (Start: 5 @62992 has 1 MA's), (7, 63019), (Start: 8 @63046 has 35 MA's), (10, 63088), (14, 63160), (16, 63184), (18, 63232),