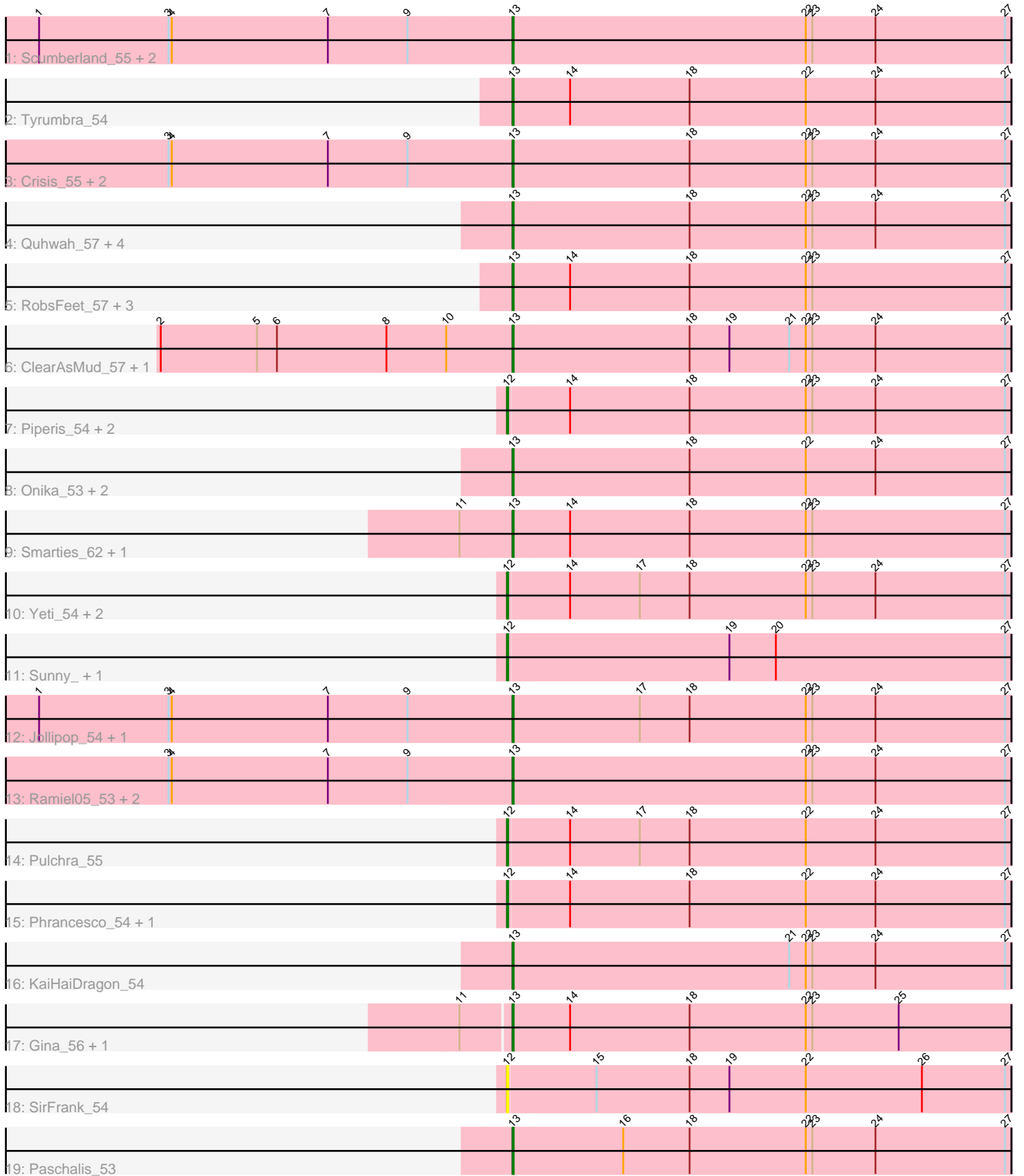


Pham 224690



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 224690 Report

This analysis was run 03/28/25 on database version 593.

Pham number 224690 has 44 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Scumberland_55, LittleFortune_55, Cranjjs_55
- Track 2 : Tyrumbra_54
- Track 3 : Crisis_55, CrazyRich_53, Jefe_54
- Track 4 : Quhwah_57, Antares_54, Shotgun_53, PhedwardCullen_52, Savannah_53
- Track 5 : RobsFeet_57, Metamorphoo_56, Fireman_56, Shrubaron_56
- Track 6 : ClearAsMud_57, NoodlelyBoi_55
- Track 7 : Piperis_54, Ganandorf_53, Phorgeous_53
- Track 8 : Onika_53, PiperSansNom_54, Hermeonysus_53
- Track 9 : Smarties_62, Ariadne_62
- Track 10 : Yeti_54, Glorp_55, Honeyfin_55
- Track 11 : Sunny_, Merry_
- Track 12 : Jollipop_54, PierreOrion_54
- Track 13 : Ramiel05_53, Kowalski_53, BrazzalePHS_53
- Track 14 : Pulchra_55
- Track 15 : Phrancesco_54, Busephilis_53
- Track 16 : KaiHaiDragon_54
- Track 17 : Gina_56, Teamocil_56
- Track 18 : SirFrank_54
- Track 19 : Paschalis_53

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

The start number called the most often in the published annotations is 13, it was called in 29 of the 39 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Antares_54, Ariadne_62, BrazzalePHS_53, ClearAsMud_57, Cranjjs_55, CrazyRich_53, Crisis_55, Fireman_56, Gina_56, Hermeonysus_53, Jefe_54, Jollipop_54, KaiHaiDragon_54, Kowalski_53, LittleFortune_55, Metamorphoo_56, NoodlelyBoi_55, Onika_53, Paschalis_53, PhedwardCullen_52, PierreOrion_54, PiperSansNom_54, Quhwah_57, Ramiel05_53, RobsFeet_57, Savannah_53, Scumberland_55, Shotgun_53, Shrubaron_56, Smarties_62, Teamocil_56, Tyrumbra_54,

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

-

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

- Busephilis_53, Ganandorf_53, Glorp_55, Honeyfin_55, Merry_, Phorgeous_53, Phrancesco_54, Piperis_54, Pulchra_55, SirFrank_54, Sunny_, Yeti_54,

Summary by start number:

Start 12:

- Found in 12 of 44 (27.3%) of genes in pham
- Manual Annotations of this start: 10 of 39
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Busephilis_53 (EC), Ganandorf_53 (EC), Glorp_55 (EC), Honeyfin_55 (EC), Merry_ (EC), Phorgeous_53 (EC), Phrancesco_54 (EC), Piperis_54 (EC), Pulchra_55 (EC), SirFrank_54 (EC), Sunny_ (EC), Yeti_54 (EC),

Start 13:

- Found in 32 of 44 (72.7%) of genes in pham
- Manual Annotations of this start: 29 of 39
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Antares_54 (EC), Ariadne_62 (EC), BrazzalePHS_53 (EC), ClearAsMud_57 (EC), Cranjis_55 (EC), CrazyRich_53 (EC), Crisis_55 (EC), Fireman_56 (EC), Gina_56 (EC), Hermeonysus_53 (EC), Jefe_54 (EC), Jollipop_54 (EC), KaiHaiDragon_54 (EC), Kowalski_53 (EC), LittleFortune_55 (EC), Metamorphoo_56 (EC), NoodlelyBoi_55 (EC), Onika_53 (EC), Paschalis_53 (EC), PhedwardCullen_52 (EC), PierreOrion_54 (EC), PiperSansNom_54 (EC), Quhwah_57 (EC), Ramiel05_53 (EC), RobsFeet_57 (EC), Savannah_53 (EC), Scumberland_55 (EC), Shotgun_53 (EC), Shrubaron_56 (EC), Smarties_62 (EC), Teamocil_56 (EC), Tyumbra_54 (EC),

Summary by clusters:

There is one cluster represented in this pham: EC

Info for manual annotations of cluster EC:

- Start number 12 was manually annotated 10 times for cluster EC.
- Start number 13 was manually annotated 29 times for cluster EC.

Gene Information:

Gene: Antares_54 Start: 35918, Stop: 36367, Start Num: 13

Candidate Starts for Antares_54:

(Start: 13 @35918 has 29 MA's), (18, 36077), (22, 36182), (23, 36188), (24, 36245), (27, 36362),

Gene: Ariadne_62 Start: 37502, Stop: 37951, Start Num: 13

Candidate Starts for Ariadne_62:

(11, 37460), (Start: 13 @37502 has 29 MA's), (14, 37553), (18, 37661), (22, 37766), (23, 37772), (27, 37946),

Gene: BrazzalePHS_53 Start: 35714, Stop: 36163, Start Num: 13

Candidate Starts for BrazzalePHS_53:

(3, 35405), (4, 35408), (7, 35549), (9, 35621), (Start: 13 @35714 has 29 MA's), (22, 35978), (23, 35984), (24, 36041), (27, 36158),

Gene: Busephilis_53 Start: 35622, Stop: 36074, Start Num: 12

Candidate Starts for Busephilis_53:

(Start: 12 @35622 has 10 MA's), (14, 35676), (18, 35784), (22, 35889), (24, 35952), (27, 36069),

Gene: ClearAsMud_57 Start: 36175, Stop: 36624, Start Num: 13

Candidate Starts for ClearAsMud_57:

(2, 35857), (5, 35944), (6, 35962), (8, 36061), (10, 36115), (Start: 13 @36175 has 29 MA's), (18, 36334), (19, 36370), (21, 36424), (22, 36439), (23, 36445), (24, 36502), (27, 36619),

Gene: Cranjis_55 Start: 35873, Stop: 36322, Start Num: 13

Candidate Starts for Cranjis_55:

(1, 35447), (3, 35564), (4, 35567), (7, 35708), (9, 35780), (Start: 13 @35873 has 29 MA's), (22, 36137), (23, 36143), (24, 36200), (27, 36317),

Gene: CrazyRich_53 Start: 35682, Stop: 36131, Start Num: 13

Candidate Starts for CrazyRich_53:

(3, 35373), (4, 35376), (7, 35517), (9, 35589), (Start: 13 @35682 has 29 MA's), (18, 35841), (22, 35946), (23, 35952), (24, 36009), (27, 36126),

Gene: Crisis_55 Start: 35673, Stop: 36122, Start Num: 13

Candidate Starts for Crisis_55:

(3, 35364), (4, 35367), (7, 35508), (9, 35580), (Start: 13 @35673 has 29 MA's), (18, 35832), (22, 35937), (23, 35943), (24, 36000), (27, 36117),

Gene: Fireman_56 Start: 37569, Stop: 38018, Start Num: 13

Candidate Starts for Fireman_56:

(Start: 13 @37569 has 29 MA's), (14, 37620), (18, 37728), (22, 37833), (23, 37839), (27, 38013),

Gene: Ganandorf_53 Start: 35703, Stop: 36155, Start Num: 12

Candidate Starts for Ganandorf_53:

(Start: 12 @35703 has 10 MA's), (14, 35757), (18, 35865), (22, 35970), (23, 35976), (24, 36033), (27, 36150),

Gene: Gina_56 Start: 35677, Stop: 36126, Start Num: 13

Candidate Starts for Gina_56:

(11, 35638), (Start: 13 @35677 has 29 MA's), (14, 35728), (18, 35836), (22, 35941), (23, 35947), (25, 36025),

Gene: Glorp_55 Start: 35704, Stop: 36156, Start Num: 12

Candidate Starts for Glorp_55:

(Start: 12 @35704 has 10 MA's), (14, 35758), (17, 35821), (18, 35866), (22, 35971), (23, 35977), (24, 36034), (27, 36151),

Gene: Hermeonysus_53 Start: 35602, Stop: 36051, Start Num: 13

Candidate Starts for Hermeonysus_53:

(Start: 13 @35602 has 29 MA's), (18, 35761), (22, 35866), (24, 35929), (27, 36046),

Gene: Honeyfin_55 Start: 35891, Stop: 36343, Start Num: 12

Candidate Starts for Honeyfin_55:

(Start: 12 @35891 has 10 MA's), (14, 35945), (17, 36008), (18, 36053), (22, 36158), (23, 36164), (24, 36221), (27, 36338),

Gene: Jefe_54 Start: 35660, Stop: 36109, Start Num: 13

Candidate Starts for Jefe_54:

(3, 35351), (4, 35354), (7, 35495), (9, 35567), (Start: 13 @35660 has 29 MA's), (18, 35819), (22, 35924), (23, 35930), (24, 35987), (27, 36104),

Gene: Jollipop_54 Start: 35999, Stop: 36448, Start Num: 13

Candidate Starts for Jollipop_54:

(1, 35573), (3, 35690), (4, 35693), (7, 35834), (9, 35906), (Start: 13 @35999 has 29 MA's), (17, 36113), (18, 36158), (22, 36263), (23, 36269), (24, 36326), (27, 36443),

Gene: KaiHaiDragon_54 Start: 35596, Stop: 36045, Start Num: 13

Candidate Starts for KaiHaiDragon_54:

(Start: 13 @35596 has 29 MA's), (21, 35845), (22, 35860), (23, 35866), (24, 35923), (27, 36040),

Gene: Kowalski_53 Start: 35709, Stop: 36158, Start Num: 13

Candidate Starts for Kowalski_53:

(3, 35400), (4, 35403), (7, 35544), (9, 35616), (Start: 13 @35709 has 29 MA's), (22, 35973), (23, 35979), (24, 36036), (27, 36153),

Gene: LittleFortune_55 Start: 35965, Stop: 36414, Start Num: 13

Candidate Starts for LittleFortune_55:

(1, 35539), (3, 35656), (4, 35659), (7, 35800), (9, 35872), (Start: 13 @35965 has 29 MA's), (22, 36229), (23, 36235), (24, 36292), (27, 36409),

Gene: Merry_ Start: 37459, Stop: 37911, Start Num: 12

Candidate Starts for Merry_:

(Start: 12 @37459 has 10 MA's), (19, 37657), (20, 37699), (27, 37906),

Gene: Metamorphoo_56 Start: 36831, Stop: 37280, Start Num: 13

Candidate Starts for Metamorphoo_56:

(Start: 13 @36831 has 29 MA's), (14, 36882), (18, 36990), (22, 37095), (23, 37101), (27, 37275),

Gene: NoodlelyBoi_55 Start: 36387, Stop: 36836, Start Num: 13

Candidate Starts for NoodlelyBoi_55:

(2, 36069), (5, 36156), (6, 36174), (8, 36273), (10, 36327), (Start: 13 @36387 has 29 MA's), (18, 36546), (19, 36582), (21, 36636), (22, 36651), (23, 36657), (24, 36714), (27, 36831),

Gene: Onika_53 Start: 35684, Stop: 36133, Start Num: 13

Candidate Starts for Onika_53:

(Start: 13 @35684 has 29 MA's), (18, 35843), (22, 35948), (24, 36011), (27, 36128),

Gene: Paschalis_53 Start: 35691, Stop: 36140, Start Num: 13

Candidate Starts for Paschalis_53:

(Start: 13 @35691 has 29 MA's), (16, 35790), (18, 35850), (22, 35955), (23, 35961), (24, 36018), (27, 36135),

Gene: PhedwardCullen_52 Start: 35442, Stop: 35891, Start Num: 13

Candidate Starts for PhedwardCullen_52:

(Start: 13 @35442 has 29 MA's), (18, 35601), (22, 35706), (23, 35712), (24, 35769), (27, 35886),

Gene: Phorgeous_53 Start: 35522, Stop: 35974, Start Num: 12

Candidate Starts for Phorgeous_53:

(Start: 12 @35522 has 10 MA's), (14, 35576), (18, 35684), (22, 35789), (23, 35795), (24, 35852), (27, 35969),

Gene: Phrancesco_54 Start: 35812, Stop: 36264, Start Num: 12

Candidate Starts for Phrancesco_54:

(Start: 12 @35812 has 10 MA's), (14, 35866), (18, 35974), (22, 36079), (24, 36142), (27, 36259),

Gene: PierreOrion_54 Start: 35858, Stop: 36307, Start Num: 13

Candidate Starts for PierreOrion_54:

(1, 35432), (3, 35549), (4, 35552), (7, 35693), (9, 35765), (Start: 13 @35858 has 29 MA's), (17, 35972), (18, 36017), (22, 36122), (23, 36128), (24, 36185), (27, 36302),

Gene: PiperSansNom_54 Start: 35998, Stop: 36447, Start Num: 13

Candidate Starts for PiperSansNom_54:

(Start: 13 @35998 has 29 MA's), (18, 36157), (22, 36262), (24, 36325), (27, 36442),

Gene: Piperis_54 Start: 35645, Stop: 36097, Start Num: 12

Candidate Starts for Piperis_54:

(Start: 12 @35645 has 10 MA's), (14, 35699), (18, 35807), (22, 35912), (23, 35918), (24, 35975), (27, 36092),

Gene: Pulchra_55 Start: 36042, Stop: 36494, Start Num: 12

Candidate Starts for Pulchra_55:

(Start: 12 @36042 has 10 MA's), (14, 36096), (17, 36159), (18, 36204), (22, 36309), (24, 36372), (27, 36489),

Gene: Quhwah_57 Start: 36306, Stop: 36755, Start Num: 13

Candidate Starts for Quhwah_57:

(Start: 13 @36306 has 29 MA's), (18, 36465), (22, 36570), (23, 36576), (24, 36633), (27, 36750),

Gene: Ramiel05_53 Start: 35709, Stop: 36158, Start Num: 13

Candidate Starts for Ramiel05_53:

(3, 35400), (4, 35403), (7, 35544), (9, 35616), (Start: 13 @35709 has 29 MA's), (22, 35973), (23, 35979), (24, 36036), (27, 36153),

Gene: RobsFeet_57 Start: 37130, Stop: 37579, Start Num: 13

Candidate Starts for RobsFeet_57:

(Start: 13 @37130 has 29 MA's), (14, 37181), (18, 37289), (22, 37394), (23, 37400), (27, 37574),

Gene: Savannah_53 Start: 35736, Stop: 36185, Start Num: 13

Candidate Starts for Savannah_53:

(Start: 13 @35736 has 29 MA's), (18, 35895), (22, 36000), (23, 36006), (24, 36063), (27, 36180),

Gene: Scumberland_55 Start: 35931, Stop: 36380, Start Num: 13

Candidate Starts for Scumberland_55:

(1, 35505), (3, 35622), (4, 35625), (7, 35766), (9, 35838), (Start: 13 @35931 has 29 MA's), (22, 36195), (23, 36201), (24, 36258), (27, 36375),

Gene: Shotgun_53 Start: 35535, Stop: 35984, Start Num: 13

Candidate Starts for Shotgun_53:

(Start: 13 @35535 has 29 MA's), (18, 35694), (22, 35799), (23, 35805), (24, 35862), (27, 35979),

Gene: Shrubaron_56 Start: 36743, Stop: 37192, Start Num: 13

Candidate Starts for Shrubaron_56:

(Start: 13 @36743 has 29 MA's), (14, 36794), (18, 36902), (22, 37007), (23, 37013), (27, 37187),

Gene: SirFrank_54 Start: 35866, Stop: 36318, Start Num: 12

Candidate Starts for SirFrank_54:

(Start: 12 @35866 has 10 MA's), (15, 35944), (18, 36028), (19, 36064), (22, 36133), (26, 36238), (27, 36313),

Gene: Smarties_62 Start: 37502, Stop: 37951, Start Num: 13

Candidate Starts for Smarties_62:

(11, 37460), (Start: 13 @37502 has 29 MA's), (14, 37553), (18, 37661), (22, 37766), (23, 37772), (27, 37946),

Gene: Sunny_ Start: 37461, Stop: 37913, Start Num: 12

Candidate Starts for Sunny_:

(Start: 12 @37461 has 10 MA's), (19, 37659), (20, 37701), (27, 37908),

Gene: Teamocil_56 Start: 35776, Stop: 36225, Start Num: 13

Candidate Starts for Teamocil_56:

(11, 35737), (Start: 13 @35776 has 29 MA's), (14, 35827), (18, 35935), (22, 36040), (23, 36046), (25, 36124),

Gene: Tyrumbra_54 Start: 36909, Stop: 37358, Start Num: 13

Candidate Starts for Tyrumbra_54:

(Start: 13 @36909 has 29 MA's), (14, 36960), (18, 37068), (22, 37173), (24, 37236), (27, 37353),

Gene: Yeti_54 Start: 35678, Stop: 36130, Start Num: 12

Candidate Starts for Yeti_54:

(Start: 12 @35678 has 10 MA's), (14, 35732), (17, 35795), (18, 35840), (22, 35945), (23, 35951), (24, 36008), (27, 36125),