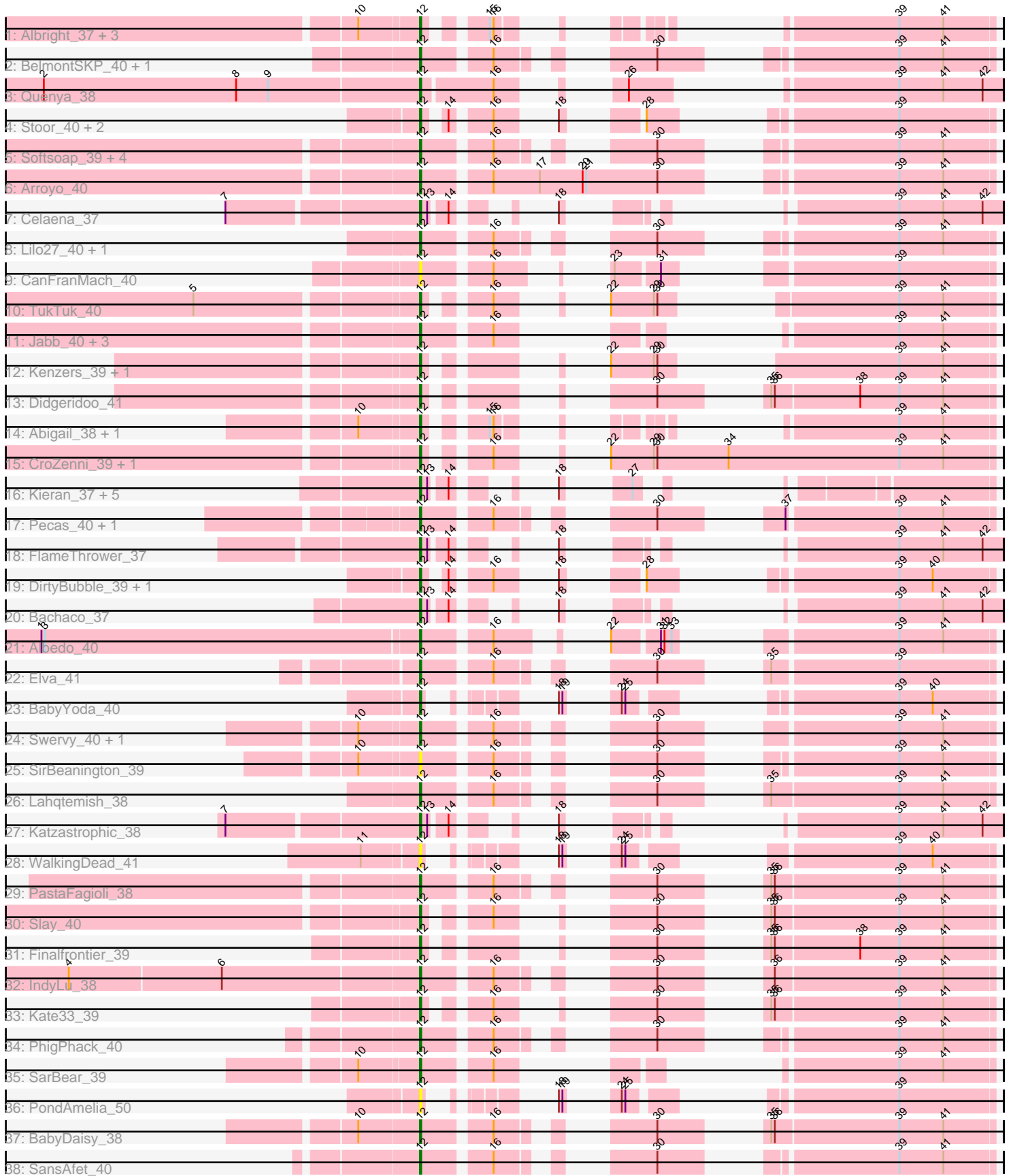


Pham 296572



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 296572 Report

This analysis was run 04/25/26 on database version 644.

Pham number 296572 has 63 members, 8 are drafts.

Phages represented in each track:

- Track 1 : Albright_37, Cashington_37, Doobus_38, Avocadoman_38
- Track 2 : BelmontSKP_40, AnnaLie_40
- Track 3 : Quenya_38
- Track 4 : Stoor_40, SanaSana_42, Icarian_42
- Track 5 : Softsoap_39, BubbaBear_38, AylexOG_41, Burritobowl_39, Eula_40
- Track 6 : Arroyo_40
- Track 7 : Celaena_37
- Track 8 : Lilo27_40, Nicky22_40
- Track 9 : CanFranMach_40
- Track 10 : TukTuk_40
- Track 11 : Jabb_40, CupcakePrincess_40, Jovita_40, MsUbiquitous_40
- Track 12 : Kenzers_39, Lynlen_39
- Track 13 : Didgeridoo_41
- Track 14 : Abigail_38, LimaBean_38
- Track 15 : CroZenni_39, DickRichards_38
- Track 16 : Kieran_37, Dismas_37, ChiliPepper_36, Kamdara_37, Sharkboy_38, Rona_37
- Track 17 : Pecas_40, QMacho_42
- Track 18 : FlameThrower_37
- Track 19 : DirtyBubble_39, Stromboli_40
- Track 20 : Bachaco_37
- Track 21 : Albedo_40
- Track 22 : Elva_41
- Track 23 : BabyYoda_40
- Track 24 : Swervy_40, Phisb_40
- Track 25 : SirBeanington_39
- Track 26 : Lahqtemish_38
- Track 27 : Katzastrophic_38
- Track 28 : WalkingDead_41
- Track 29 : PastaFagioli_38
- Track 30 : Slay_40
- Track 31 : Finalfrontier_39
- Track 32 : IndyLu_38
- Track 33 : Kate33_39
- Track 34 : PhigPhack_40
- Track 35 : SarBear_39
- Track 36 : PondAmelia_50

- Track 37 : BabyDaisy_38
- Track 38 : SansAfet_40

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

The start number called the most often in the published annotations is 12, it was called in 55 of the 55 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abigail_38, Albedo_40, Albright_37, AnnaLie_40, Arroyo_40, Avocadoman_38, AylexOG_41, BabyDaisy_38, BabyYoda_40, Bachaco_37, BelmontSKP_40, BubbaBear_38, Burritobowl_39, CanFranMach_40, Cashington_37, Celaena_37, ChiliPepper_36, CroZenni_39, CupcakePrincess_40, DickRichards_38, Didgeridoo_41, DirtyBubble_39, Dismas_37, Doobus_38, Elva_41, Eula_40, Finalfrontier_39, FlameThrower_37, Icarian_42, IndyLu_38, Jabb_40, Jovita_40, Kamdara_37, Kate33_39, Katzastrophic_38, Kenzers_39, Kieran_37, Lahqtemish_38, Lilo27_40, LimaBean_38, Lynlen_39, MsUbiquitous_40, Nicky22_40, PastaFagioli_38, Pecas_40, PhigPhack_40, Phisb_40, PondAmelia_50, QMacho_42, Quenya_38, Rona_37, SanaSana_42, SansAfet_40, SarBear_39, Sharkboy_38, SirBeanington_39, Slay_40, Softsoap_39, Stoor_40, Stromboli_40, Swervy_40, TukTuk_40, WalkingDead_41,

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

-

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

-

Summary by start number:

Start 12:

- Found in 63 of 63 (100.0%) of genes in pham
- Manual Annotations of this start: 55 of 55
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Abigail_38 (EB), Albedo_40 (EB), Albright_37 (EB), AnnaLie_40 (EB), Arroyo_40 (EB), Avocadoman_38 (EB), AylexOG_41 (EB), BabyDaisy_38 (EB), BabyYoda_40 (EB), Bachaco_37 (EB), BelmontSKP_40 (EB), BubbaBear_38 (EB), Burritobowl_39 (EB), CanFranMach_40 (EB), Cashington_37 (EB), Celaena_37 (EB), ChiliPepper_36 (EB), CroZenni_39 (EB), CupcakePrincess_40 (EB), DickRichards_38 (EB), Didgeridoo_41 (EB), DirtyBubble_39 (EB), Dismas_37 (EB), Doobus_38 (EB), Elva_41 (EB), Eula_40 (EB), Finalfrontier_39 (EB), FlameThrower_37 (EB), Icarian_42 (EB), IndyLu_38 (EB), Jabb_40 (EB), Jovita_40 (EB), Kamdara_37 (EB), Kate33_39 (EB), Katzastrophic_38 (EB), Kenzers_39 (EB), Kieran_37 (EB), Lahqtemish_38 (EB), Lilo27_40 (EB), LimaBean_38 (EB), Lynlen_39 (EB), MsUbiquitous_40 (EB), Nicky22_40 (EB), PastaFagioli_38 (EB), Pecas_40 (EB), PhigPhack_40 (EB), Phisb_40 (EB), PondAmelia_50 (EB), QMacho_42 (EB), Quenya_38 (EB), Rona_37 (EB), SanaSana_42 (EB), SansAfet_40 (EB), SarBear_39 (EB), Sharkboy_38 (EB), SirBeanington_39 (EB), Slay_40 (EB), Softsoap_39 (EB), Stoor_40 (EB), Stromboli_40 (EB), Swervy_40 (EB), TukTuk_40 (EB), WalkingDead_41 (EB),

Summary by clusters:

There is one cluster represented in this pham: EB

Info for manual annotations of cluster EB:

•Start number 12 was manually annotated 55 times for cluster EB.

Gene Information:

Gene: Abigail_38 Start: 25955, Stop: 26224, Start Num: 12

Candidate Starts for Abigail_38:

(10, 25907), (Start: 12 @25955 has 55 MA's), (15, 25991), (16, 25994), (39, 26147), (41, 26183),

Gene: Albedo_40 Start: 26678, Stop: 27001, Start Num: 12

Candidate Starts for Albedo_40:

(1, 26366), (3, 26369), (Start: 12 @26678 has 55 MA's), (16, 26729), (22, 26765), (31, 26801), (32, 26804), (33, 26810), (39, 26924), (41, 26960),

Gene: Albright_37 Start: 25657, Stop: 25926, Start Num: 12

Candidate Starts for Albright_37:

(10, 25609), (Start: 12 @25657 has 55 MA's), (15, 25693), (16, 25696), (39, 25849), (41, 25885),

Gene: AnnaLie_40 Start: 26779, Stop: 27129, Start Num: 12

Candidate Starts for AnnaLie_40:

(Start: 12 @26779 has 55 MA's), (16, 26830), (30, 26908), (39, 27052), (41, 27088),

Gene: Arroyo_40 Start: 26818, Stop: 27228, Start Num: 12

Candidate Starts for Arroyo_40:

(Start: 12 @26818 has 55 MA's), (16, 26869), (17, 26908), (20, 26944), (21, 26947), (30, 27007), (39, 27151), (41, 27187),

Gene: Avocadoman_38 Start: 25894, Stop: 26163, Start Num: 12

Candidate Starts for Avocadoman_38:

(10, 25846), (Start: 12 @25894 has 55 MA's), (15, 25930), (16, 25933), (39, 26086), (41, 26122),

Gene: AylexOG_41 Start: 26853, Stop: 27203, Start Num: 12

Candidate Starts for AylexOG_41:

(Start: 12 @26853 has 55 MA's), (16, 26904), (30, 26982), (39, 27126), (41, 27162),

Gene: BabyDaisy_38 Start: 26417, Stop: 26773, Start Num: 12

Candidate Starts for BabyDaisy_38:

(10, 26369), (Start: 12 @26417 has 55 MA's), (16, 26468), (30, 26546), (35, 26591), (36, 26594), (39, 26696), (41, 26732),

Gene: BabyYoda_40 Start: 27560, Stop: 27835, Start Num: 12

Candidate Starts for BabyYoda_40:

(Start: 12 @27560 has 55 MA's), (18, 27602), (19, 27605), (24, 27617), (25, 27620), (39, 27758), (40, 27785),

Gene: Bachaco_37 Start: 27591, Stop: 27851, Start Num: 12

Candidate Starts for Bachaco_37:

(Start: 12 @27591 has 55 MA's), (13, 27597), (14, 27609), (18, 27636), (39, 27765), (41, 27801), (42, 27834),

Gene: BelmontSKP_40 Start: 26779, Stop: 27129, Start Num: 12

Candidate Starts for BelmontSKP_40:

(Start: 12 @26779 has 55 MA's), (16, 26830), (30, 26908), (39, 27052), (41, 27088),

Gene: BubbaBear_38 Start: 26352, Stop: 26702, Start Num: 12

Candidate Starts for BubbaBear_38:

(Start: 12 @26352 has 55 MA's), (16, 26403), (30, 26481), (39, 26625), (41, 26661),

Gene: Burritobowl_39 Start: 26353, Stop: 26703, Start Num: 12

Candidate Starts for Burritobowl_39:

(Start: 12 @26353 has 55 MA's), (16, 26404), (30, 26482), (39, 26626), (41, 26662),

Gene: CanFranMach_40 Start: 26434, Stop: 26751, Start Num: 12

Candidate Starts for CanFranMach_40:

(Start: 12 @26434 has 55 MA's), (16, 26485), (23, 26518), (31, 26551), (39, 26674),

Gene: Cashington_37 Start: 25697, Stop: 25966, Start Num: 12

Candidate Starts for Cashington_37:

(10, 25649), (Start: 12 @25697 has 55 MA's), (15, 25733), (16, 25736), (39, 25889), (41, 25925),

Gene: Celaena_37 Start: 27333, Stop: 27593, Start Num: 12

Candidate Starts for Celaena_37:

(7, 27180), (Start: 12 @27333 has 55 MA's), (13, 27339), (14, 27351), (18, 27378), (39, 27507), (41, 27543), (42, 27576),

Gene: ChiliPepper_36 Start: 26781, Stop: 27017, Start Num: 12

Candidate Starts for ChiliPepper_36:

(Start: 12 @26781 has 55 MA's), (13, 26787), (14, 26799), (18, 26826), (27, 26847),

Gene: CroZenni_39 Start: 26240, Stop: 26623, Start Num: 12

Candidate Starts for CroZenni_39:

(Start: 12 @26240 has 55 MA's), (16, 26279), (22, 26303), (29, 26339), (30, 26342), (34, 26402), (39, 26546), (41, 26582),

Gene: CupcakePrincess_40 Start: 26541, Stop: 26822, Start Num: 12

Candidate Starts for CupcakePrincess_40:

(Start: 12 @26541 has 55 MA's), (16, 26592), (39, 26745), (41, 26781),

Gene: DickRichards_38 Start: 26679, Stop: 27062, Start Num: 12

Candidate Starts for DickRichards_38:

(Start: 12 @26679 has 55 MA's), (16, 26718), (22, 26742), (29, 26778), (30, 26781), (34, 26841), (39, 26985), (41, 27021),

Gene: Didgeridoo_41 Start: 26825, Stop: 27154, Start Num: 12

Candidate Starts for Didgeridoo_41:

(Start: 12 @26825 has 55 MA's), (30, 26927), (35, 26972), (36, 26975), (38, 27044), (39, 27077), (41, 27113),

Gene: DirtyBubble_39 Start: 27207, Stop: 27503, Start Num: 12

Candidate Starts for DirtyBubble_39:

(Start: 12 @27207 has 55 MA's), (14, 27219), (16, 27246), (18, 27267), (28, 27297), (39, 27426), (40, 27453),

Gene: Dismas_37 Start: 26952, Stop: 27188, Start Num: 12

Candidate Starts for Dismas_37:

(Start: 12 @26952 has 55 MA's), (13, 26958), (14, 26970), (18, 26997), (27, 27018),

Gene: Doobus_38 Start: 26061, Stop: 26330, Start Num: 12

Candidate Starts for Doobus_38:

(10, 26013), (Start: 12 @26061 has 55 MA's), (15, 26097), (16, 26100), (39, 26253), (41, 26289),

Gene: Elva_41 Start: 27269, Stop: 27622, Start Num: 12

Candidate Starts for Elva_41:

(Start: 12 @27269 has 55 MA's), (16, 27320), (30, 27398), (35, 27443), (39, 27545),

Gene: Eula_40 Start: 26454, Stop: 26804, Start Num: 12

Candidate Starts for Eula_40:

(Start: 12 @26454 has 55 MA's), (16, 26505), (30, 26583), (39, 26727), (41, 26763),

Gene: Finalfrontier_39 Start: 27068, Stop: 27397, Start Num: 12

Candidate Starts for Finalfrontier_39:

(Start: 12 @27068 has 55 MA's), (30, 27170), (35, 27215), (36, 27218), (38, 27287), (39, 27320), (41, 27356),

Gene: FlameThrower_37 Start: 26783, Stop: 27043, Start Num: 12

Candidate Starts for FlameThrower_37:

(Start: 12 @26783 has 55 MA's), (13, 26789), (14, 26801), (18, 26828), (39, 26957), (41, 26993), (42, 27026),

Gene: Icarian_42 Start: 27843, Stop: 28139, Start Num: 12

Candidate Starts for Icarian_42:

(Start: 12 @27843 has 55 MA's), (14, 27855), (16, 27882), (18, 27903), (28, 27933), (39, 28062),

Gene: IndyLu_38 Start: 26383, Stop: 26739, Start Num: 12

Candidate Starts for IndyLu_38:

(4, 26098), (6, 26224), (Start: 12 @26383 has 55 MA's), (16, 26434), (30, 26512), (36, 26560), (39, 26662), (41, 26698),

Gene: Jabb_40 Start: 26541, Stop: 26822, Start Num: 12

Candidate Starts for Jabb_40:

(Start: 12 @26541 has 55 MA's), (16, 26592), (39, 26745), (41, 26781),

Gene: Jovita_40 Start: 26556, Stop: 26837, Start Num: 12

Candidate Starts for Jovita_40:

(Start: 12 @26556 has 55 MA's), (16, 26607), (39, 26760), (41, 26796),

Gene: Kamdara_37 Start: 26957, Stop: 27193, Start Num: 12

Candidate Starts for Kamdara_37:

(Start: 12 @26957 has 55 MA's), (13, 26963), (14, 26975), (18, 27002), (27, 27023),

Gene: Kate33_39 Start: 26148, Stop: 26477, Start Num: 12

Candidate Starts for Kate33_39:

(Start: 12 @26148 has 55 MA's), (16, 26187), (30, 26250), (35, 26295), (36, 26298), (39, 26400), (41, 26436),

Gene: Katzastrophic_38 Start: 26912, Stop: 27172, Start Num: 12

Candidate Starts for Katzastrophic_38:

(7, 26759), (Start: 12 @26912 has 55 MA's), (13, 26918), (14, 26930), (18, 26957), (39, 27086), (41, 27122), (42, 27155),

Gene: Kenzers_39 Start: 26376, Stop: 26675, Start Num: 12

Candidate Starts for Kenzers_39:

(Start: 12 @26376 has 55 MA's), (22, 26439), (29, 26475), (30, 26478), (39, 26598), (41, 26634),

Gene: Kieran_37 Start: 26960, Stop: 27196, Start Num: 12

Candidate Starts for Kieran_37:

(Start: 12 @26960 has 55 MA's), (13, 26966), (14, 26978), (18, 27005), (27, 27026),

Gene: Lahqtemish_38 Start: 26424, Stop: 26780, Start Num: 12

Candidate Starts for Lahqtemish_38:

(Start: 12 @26424 has 55 MA's), (16, 26475), (30, 26553), (35, 26598), (39, 26703), (41, 26739),

Gene: Lilo27_40 Start: 26363, Stop: 26713, Start Num: 12

Candidate Starts for Lilo27_40:

(Start: 12 @26363 has 55 MA's), (16, 26414), (30, 26492), (39, 26636), (41, 26672),

Gene: LimaBean_38 Start: 25833, Stop: 26102, Start Num: 12

Candidate Starts for LimaBean_38:

(10, 25785), (Start: 12 @25833 has 55 MA's), (15, 25869), (16, 25872), (39, 26025), (41, 26061),

Gene: Lynlen_39 Start: 26376, Stop: 26675, Start Num: 12

Candidate Starts for Lynlen_39:

(Start: 12 @26376 has 55 MA's), (22, 26439), (29, 26475), (30, 26478), (39, 26598), (41, 26634),

Gene: MsUbiquitous_40 Start: 26541, Stop: 26822, Start Num: 12

Candidate Starts for MsUbiquitous_40:

(Start: 12 @26541 has 55 MA's), (16, 26592), (39, 26745), (41, 26781),

Gene: Nicky22_40 Start: 26917, Stop: 27267, Start Num: 12

Candidate Starts for Nicky22_40:

(Start: 12 @26917 has 55 MA's), (16, 26968), (30, 27046), (39, 27190), (41, 27226),

Gene: PastaFagioli_38 Start: 26409, Stop: 26765, Start Num: 12

Candidate Starts for PastaFagioli_38:

(Start: 12 @26409 has 55 MA's), (16, 26460), (30, 26538), (35, 26583), (36, 26586), (39, 26688), (41, 26724),

Gene: Pecas_40 Start: 26669, Stop: 27022, Start Num: 12

Candidate Starts for Pecas_40:

(Start: 12 @26669 has 55 MA's), (16, 26720), (30, 26798), (37, 26855), (39, 26945), (41, 26981),

Gene: PhigPhack_40 Start: 26279, Stop: 26629, Start Num: 12

Candidate Starts for PhigPhack_40:

(Start: 12 @26279 has 55 MA's), (16, 26330), (30, 26408), (39, 26552), (41, 26588),

Gene: Phisb_40 Start: 26510, Stop: 26863, Start Num: 12
Candidate Starts for Phisb_40:
(10, 26462), (Start: 12 @26510 has 55 MA's), (16, 26561), (30, 26639), (39, 26786), (41, 26822),

Gene: PondAmelia_50 Start: 27375, Stop: 27650, Start Num: 12
Candidate Starts for PondAmelia_50:
(Start: 12 @27375 has 55 MA's), (18, 27417), (19, 27420), (24, 27432), (25, 27435), (39, 27573),

Gene: QMacho_42 Start: 27152, Stop: 27505, Start Num: 12
Candidate Starts for QMacho_42:
(Start: 12 @27152 has 55 MA's), (16, 27203), (30, 27281), (37, 27338), (39, 27428), (41, 27464),

Gene: Quenya_38 Start: 26614, Stop: 26925, Start Num: 12
Candidate Starts for Quenya_38:
(2, 26302), (8, 26464), (9, 26491), (Start: 12 @26614 has 55 MA's), (16, 26671), (26, 26710), (39, 26839), (41, 26875), (42, 26908),

Gene: Rona_37 Start: 26943, Stop: 27179, Start Num: 12
Candidate Starts for Rona_37:
(Start: 12 @26943 has 55 MA's), (13, 26949), (14, 26961), (18, 26988), (27, 27009),

Gene: SanaSana_42 Start: 28045, Stop: 28341, Start Num: 12
Candidate Starts for SanaSana_42:
(Start: 12 @28045 has 55 MA's), (14, 28057), (16, 28084), (18, 28105), (28, 28135), (39, 28264),

Gene: SansAfet_40 Start: 26366, Stop: 26716, Start Num: 12
Candidate Starts for SansAfet_40:
(Start: 12 @26366 has 55 MA's), (16, 26417), (30, 26495), (39, 26639), (41, 26675),

Gene: SarBear_39 Start: 26231, Stop: 26512, Start Num: 12
Candidate Starts for SarBear_39:
(10, 26183), (Start: 12 @26231 has 55 MA's), (16, 26282), (39, 26435), (41, 26471),

Gene: Sharkboy_38 Start: 27042, Stop: 27278, Start Num: 12
Candidate Starts for Sharkboy_38:
(Start: 12 @27042 has 55 MA's), (13, 27048), (14, 27060), (18, 27087), (27, 27108),

Gene: SirBeanington_39 Start: 26552, Stop: 26902, Start Num: 12
Candidate Starts for SirBeanington_39:
(10, 26504), (Start: 12 @26552 has 55 MA's), (16, 26603), (30, 26681), (39, 26825), (41, 26861),

Gene: Slay_40 Start: 26911, Stop: 27240, Start Num: 12
Candidate Starts for Slay_40:
(Start: 12 @26911 has 55 MA's), (16, 26950), (30, 27013), (35, 27058), (36, 27061), (39, 27163), (41, 27199),

Gene: Softsoap_39 Start: 26277, Stop: 26627, Start Num: 12
Candidate Starts for Softsoap_39:
(Start: 12 @26277 has 55 MA's), (16, 26328), (30, 26406), (39, 26550), (41, 26586),

Gene: Stoor_40 Start: 27714, Stop: 28010, Start Num: 12
Candidate Starts for Stoor_40:
(Start: 12 @27714 has 55 MA's), (14, 27726), (16, 27753), (18, 27774), (28, 27804), (39, 27933),

Gene: Stromboli_40 Start: 27577, Stop: 27873, Start Num: 12

Candidate Starts for Stromboli_40:

(Start: 12 @27577 has 55 MA's), (14, 27589), (16, 27616), (18, 27637), (28, 27667), (39, 27796), (40, 27823),

Gene: Swervy_40 Start: 26431, Stop: 26784, Start Num: 12

Candidate Starts for Swervy_40:

(10, 26383), (Start: 12 @26431 has 55 MA's), (16, 26482), (30, 26560), (39, 26707), (41, 26743),

Gene: TukTuk_40 Start: 26501, Stop: 26797, Start Num: 12

Candidate Starts for TukTuk_40:

(5, 26327), (Start: 12 @26501 has 55 MA's), (16, 26540), (22, 26564), (29, 26600), (30, 26603), (39, 26720), (41, 26756),

Gene: WalkingDead_41 Start: 27970, Stop: 28248, Start Num: 12

Candidate Starts for WalkingDead_41:

(11, 27925), (Start: 12 @27970 has 55 MA's), (18, 28012), (19, 28015), (24, 28027), (25, 28030), (39, 28171), (40, 28198),