

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 221252 Report

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

Pham number 221252 has 100 members, 9 are drafts.

Phages represented in each track:

- Track 1 : Preamble_21, Kittykat_21
- Track 2 : GreenHearts_25
- Track 3 : Albanese_25, Lakshmi_25
- Track 4 : Immaculata_25, Cholula_25, Potatoes_25
- Track 5 : Lasagna_21
- Track 6 : Glenn_25, TattModd_25, Carpal_25, Fluke_25, Vallejo_25
- Track 7 : RAP15_25, Korra_26, MeganNoll_25, Savage2526_25, MrGloopy_25, Jumboset_25, BrotherBLo_25
- Track 8 : Gisselle_21, DreamTeam_21
- Track 9 : Aledel_21, Supakev_21, Riovina_21, Eunoia_21, OMalley_21, Chridison_21
- Track 10 : DrRobert_21, Lucy_21, Christian_21, PitaDog_21, OurGirlNessie_21
- Track 11 : PinkFriday_21, Pumancara_21
- Track 12 : Greenhouse_25
- Track 13 : Maria1952_21, Daiboju_21, Temper16_21, KingBob_21, Herb_21, Sergei_21
- Track 14 : Rozby_25, Riverdale_25, Beethoven_25
- Track 15 : Litotes_25
- Track 16 : HeadNerd_21, Moki_21, Bennie_21, Huckleberry_21
- Track 17 : CallieOMalley_25, PartyCup_25, Wayne_25
- Track 18 : WonderBoy_21
- Track 19 : Suppi_25, AppleCider_25, Canowicakte_25
- Track 20 : Nubia_25, Oxynfrius_25
- Track 21 : Kalizoi_25, Dino_25, Zorro_25
- Track 22 : HunterDalle_21, Vulture_21
- Track 23 : Wawa_25
- Track 24 : AustinPowers_21
- Track 25 : Urla_21
- Track 26 : EstebanJulior_21, MamaPearl_21
- Track 27 : Bodacious_21, Nancia_21, CristinaYang_21, LilStuart_21, Lennox_21, ChewChew_21
- Track 28 : Misaeng_25
- Track 29 : BigMack_21
- Track 30 : Scuttle_25
- Track 31 : Pterodactyl_21, Makoto_21
- Track 32 : RcigaStruga_25, Huntingdon_25
- Track 33 : Joann_25

- Track 34 : VroomVroom_21
- Track 35 : Pigu_22
- Track 36 : Sarge_22, BrayBeast_22
- Track 37 : Seldom_20, Dunamis_24, Swim_25
- Track 38 : Mendel_22
- Track 39 : Goodgraces_22
- Track 40 : Tillums_26
- Track 41 : Anjali_20
- Track 42 : Hum25_23
- Track 43 : Neuville_21
- Track 44 : TMaxx_21
- Track 45 : Audell_24
- Track 46 : AnnabelLee_21

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

The start number called the most often in the published annotations is 15, it was called in 87 of the 91 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Albanese_25, Aledel_21, Anjali_20, AnnabelLee_21, AppleCider_25, AustinPowers_21, Beethoven_25, Bennie_21, BigMack_21, Bodacious_21, BrotherBLo_25, CallieOMalley_25, Canowicakte_25, Carpal_25, ChewChew_21, Cholula_25, Chridison_21, Christian_21, CristinaYang_21, Daiboju_21, Dino_25, DrRobert_21, DreamTeam_21, Dunamis_24, EstebanJulior_21, Eunoia_21, Fluke_25, Gisselle_21, Glenn_25, Goodgraces_22, GreenHearts_25, Greenhouse_25, HeadNerd_21, Herb_21, Huckleberry_21, HunterDalle_21, Huntingdon_25, Immaculata_25, Joann_25, Jumboset_25, Kalizoi_25, KingBob_21, Kittykat_21, Korra_26, Lakshmi_25, Lasagna_21, Lennox_21, LilStuart_21, Litotes_25, Lucy_21, Makoto_21, MamaPearl_21, Maria1952_21, MeganNoll_25, Mendel_22, Misaeng_25, Moki_21, MrGloopy_25, Nancia_21, Neuville_21, Nubia_25, OMalley_21, OurGirlNessie_21, Oxynfrius_25, PartyCup_25, PinkFriday_21, PitaDog_21, Potatoes_25, Preamble_21, Pterodactyl_21, Pumancara_21, RAP15_25, RcigaStruga_25, Riovina_21, Riverdale_25, Rozby_25, Savage2526_25, Scuttle_25, Seldom_20, Sergei_21, Supakev_21, Suppi_25, Swim_25, TattModd_25, Temper16_21, Tillums_26, Urla_21, Vallejo_25, Vulture_21, Wawa_25, Wayne_25, WonderBoy_21, Zorro_25,

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

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

- Audell_24, BrayBeast_22, Hum25_23, Pigu_22, Sarge_22, TMaxx_21, VroomVroom_21,

Summary by start number:

Start 12:

- Found in 1 of 100 (1.0%) of genes in pham
- No Manual Annotations of this start.

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Audell_24 (FR),

Start 13:

- Found in 1 of 100 (1.0%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: TMaxx_21 (FR),

Start 14:

- Found in 5 of 100 (5.0%) of genes in pham
- Manual Annotations of this start: 4 of 91
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BrayBeast_22 (FB), Hum25_23 (FQ), Pigu_22 (FB), Sarge_22 (FB), VroomVroom_21 (AZ4),

Start 15:

- Found in 93 of 100 (93.0%) of genes in pham
- Manual Annotations of this start: 87 of 91
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Albanese_25 (AK), Aledel_21 (AK), Anjali_20 (FD), AnnabelLee_21 (FR), AppleCider_25 (AK), AustinPowers_21 (AK), Beethoven_25 (AK), Bennie_21 (AK), BigMack_21 (AK), Bodacious_21 (AK), BrotherBLo_25 (AK), CallieOMalley_25 (AK), Canowicakte_25 (AK), Carpal_25 (AK), ChewChew_21 (AK), Cholula_25 (AK), Chridison_21 (AK), Christian_21 (AK), CristinaYang_21 (AK), Daiboju_21 (AK), Dino_25 (AK), DrRobert_21 (AK), DreamTeam_21 (AK), Dunamis_24 (FD), EstebanJulior_21 (AK), Eunoia_21 (AK), Fluke_25 (AK), Gisselle_21 (AK), Glenn_25 (AK), Goodgraces_22 (FD), GreenHearts_25 (AK), Greenhouse_25 (AK), HeadNerd_21 (AK), Herb_21 (AK), Huckleberry_21 (AK), HunterDalle_21 (AK), Huntingdon_25 (AK), Immaculata_25 (AK), Joann_25 (AK), Jumboset_25 (AK), Kalizoi_25 (AK), KingBob_21 (AK), Kittykat_21 (AK), Korra_26 (AK), Lakshmi_25 (AK), Lasagna_21 (AK), Lennox_21 (AK), LilStuart_21 (AK), Litotes_25 (AK), Lucy_21 (AK), Makoto_21 (AK), MamaPearl_21 (AK), Maria1952_21 (AK), MeganNoll_25 (AK), Mendel_22 (FD), Misaeng_25 (AK), Moki_21 (AK), MrGloopy_25 (AK), Nancia_21 (AK), Neuville_21 (FR), Nubia_25 (AK), OMalley_21 (AK), OurGirlNessie_21 (AK), Oxyfrieus_25 (AK), PartyCup_25 (AK), PinkFriday_21 (AK), PitaDog_21 (AK), Potatoes_25 (AK), Preamble_21 (AK), Pterodactyl_21 (AK), Pumancara_21 (AK), RAP15_25 (AK), RcigaStruga_25 (AK), Riovina_21 (AK), Riverdale_25 (AK), Rozby_25 (AK), Savage2526_25 (AK), Scuttle_25 (AK), Seldom_20 (FD), Sergei_21 (AK), Supakev_21 (AK), Suppi_25 (AK), Swim_25 (FD), TattModd_25 (AK), Temper16_21 (AK), Tillums_26 (FD), Urla_21 (AK), Vallejo_25 (AK), Vulture_21 (AK), Wawa_25 (AK), Wayne_25 (AK), WonderBoy_21 (AK), Zorro_25 (AK),

Summary by clusters:

There are 6 clusters represented in this pham: FQ, FR, AK, FB, FD, AZ4,

Info for manual annotations of cluster AK:

- Start number 15 was manually annotated 83 times for cluster AK.

Info for manual annotations of cluster AZ4:

- Start number 14 was manually annotated 1 time for cluster AZ4.

Info for manual annotations of cluster FB:

- Start number 14 was manually annotated 2 times for cluster FB.

Info for manual annotations of cluster FD:

- Start number 15 was manually annotated 4 times for cluster FD.

Info for manual annotations of cluster FQ:

- Start number 14 was manually annotated 1 time for cluster FQ.

Gene Information:

Gene: Albanese_25 Start: 20058, Stop: 20894, Start Num: 15

Candidate Starts for Albanese_25:

(Start: 15 @20058 has 87 MA's), (20, 20124), (28, 20220), (29, 20250), (30, 20253), (32, 20268), (38, 20394), (39, 20397), (40, 20406), (50, 20550), (52, 20559), (57, 20589), (58, 20607), (61, 20640), (62, 20646), (72, 20760), (81, 20832), (83, 20859), (84, 20871),

Gene: Aledel_21 Start: 18421, Stop: 19260, Start Num: 15

Candidate Starts for Aledel_21:

(Start: 15 @18421 has 87 MA's), (22, 18517), (32, 18637), (38, 18763), (40, 18775), (50, 18916), (61, 19006), (70, 19111), (81, 19198), (83, 19225),

Gene: Anjali_20 Start: 15722, Stop: 16366, Start Num: 15

Candidate Starts for Anjali_20:

(1, 15368), (6, 15509), (9, 15665), (Start: 15 @15722 has 87 MA's), (19, 15773), (25, 15860), (37, 16040), (39, 16052), (53, 16211),

Gene: AnnabelLee_21 Start: 14177, Stop: 15061, Start Num: 15

Candidate Starts for AnnabelLee_21:

(Start: 15 @14177 has 87 MA's), (34, 14399), (41, 14525), (44, 14549), (45, 14585), (46, 14612), (48, 14663), (86, 15017),

Gene: AppleCider_25 Start: 20046, Stop: 20882, Start Num: 15

Candidate Starts for AppleCider_25:

(5, 19797), (Start: 15 @20046 has 87 MA's), (29, 20238), (32, 20256), (39, 20385), (40, 20394), (42, 20415), (43, 20424), (49, 20532), (50, 20538), (61, 20628), (62, 20634), (70, 20733), (78, 20805), (83, 20847),

Gene: Audell_24 Start: 17501, Stop: 18355, Start Num: 12

Candidate Starts for Audell_24:

(12, 17501), (20, 17567), (24, 17642), (37, 17825), (46, 17945), (56, 18005),

Gene: AustinPowers_21 Start: 18422, Stop: 19261, Start Num: 15

Candidate Starts for AustinPowers_21:

(Start: 15 @18422 has 87 MA's), (22, 18518), (32, 18638), (38, 18764), (40, 18776), (50, 18917), (61, 19007), (69, 19091), (70, 19112), (81, 19199), (83, 19226),

Gene: Beethoven_25 Start: 19983, Stop: 20840, Start Num: 15

Candidate Starts for Beethoven_25:

(Start: 15 @19983 has 87 MA's), (29, 20175), (30, 20178), (31, 20190), (47, 20439), (49, 20469), (50, 20475), (61, 20565), (62, 20571), (70, 20670), (74, 20727), (77, 20760), (81, 20778), (82, 20784), (83, 20805),

Gene: Bennie_21 Start: 18441, Stop: 19298, Start Num: 15

Candidate Starts for Bennie_21:

(5, 18192), (Start: 15 @18441 has 87 MA's), (29, 18633), (32, 18651), (39, 18780), (43, 18819), (49, 18927), (50, 18933), (61, 19023), (62, 19029), (66, 19074), (74, 19185), (81, 19236), (83, 19263),

Gene: BigMack_21 Start: 18430, Stop: 19293, Start Num: 15

Candidate Starts for BigMack_21:

(Start: 15 @18430 has 87 MA's), (29, 18625), (32, 18643), (38, 18769), (39, 18772), (43, 18811), (49, 18919), (50, 18925), (55, 18955), (61, 19015), (62, 19021), (66, 19066), (70, 19120), (74, 19177), (81, 19231), (83, 19258),

Gene: Bodacious_21 Start: 18443, Stop: 19306, Start Num: 15

Candidate Starts for Bodacious_21:

(Start: 15 @18443 has 87 MA's), (29, 18638), (32, 18656), (39, 18785), (43, 18824), (49, 18932), (50, 18938), (55, 18968), (61, 19028), (62, 19034), (66, 19079), (71, 19139), (74, 19190), (81, 19244), (83, 19271),

Gene: BrayBeast_22 Start: 17377, Stop: 18099, Start Num: 14

Candidate Starts for BrayBeast_22:

(Start: 14 @17377 has 4 MA's), (19, 17431), (24, 17515), (27, 17530), (33, 17593), (45, 17788), (53, 17875), (63, 17950), (67, 17989), (68, 18001),

Gene: BrotherBLo_25 Start: 19989, Stop: 20846, Start Num: 15

Candidate Starts for BrotherBLo_25:

(Start: 15 @19989 has 87 MA's), (29, 20181), (30, 20184), (31, 20196), (43, 20367), (47, 20445), (49, 20475), (50, 20481), (61, 20571), (62, 20577), (70, 20676), (74, 20733), (81, 20784), (82, 20790), (83, 20811),

Gene: CallieOMalley_25 Start: 20046, Stop: 20882, Start Num: 15

Candidate Starts for CallieOMalley_25:

(5, 19797), (Start: 15 @20046 has 87 MA's), (29, 20238), (32, 20256), (38, 20382), (39, 20385), (40, 20394), (42, 20415), (43, 20424), (49, 20532), (50, 20538), (61, 20628), (62, 20634), (70, 20733), (78, 20805), (83, 20847),

Gene: Canowicakte_25 Start: 20081, Stop: 20917, Start Num: 15

Candidate Starts for Canowicakte_25:

(5, 19832), (Start: 15 @20081 has 87 MA's), (29, 20273), (32, 20291), (39, 20420), (40, 20429), (42, 20450), (43, 20459), (49, 20567), (50, 20573), (61, 20663), (62, 20669), (70, 20768), (78, 20840), (83, 20882),

Gene: Carpal_25 Start: 19990, Stop: 20847, Start Num: 15

Candidate Starts for Carpal_25:

(Start: 15 @19990 has 87 MA's), (29, 20182), (30, 20185), (31, 20197), (43, 20368), (47, 20446), (49, 20476), (50, 20482), (61, 20572), (62, 20578), (70, 20677), (74, 20734), (77, 20767), (81, 20785), (82, 20791), (83, 20812),

Gene: ChewChew_21 Start: 18442, Stop: 19305, Start Num: 15

Candidate Starts for ChewChew_21:

(Start: 15 @18442 has 87 MA's), (29, 18637), (32, 18655), (39, 18784), (43, 18823), (49, 18931), (50, 18937), (55, 18967), (61, 19027), (62, 19033), (66, 19078), (71, 19138), (74, 19189), (81, 19243), (83, 19270),

Gene: Cholula_25 Start: 20035, Stop: 20892, Start Num: 15

Candidate Starts for Cholula_25:

(Start: 15 @20035 has 87 MA's), (29, 20227), (30, 20230), (31, 20242), (43, 20413), (47, 20491), (49, 20521), (50, 20527), (61, 20617), (62, 20623), (70, 20722), (74, 20779), (80, 20827), (81, 20830), (82, 20836), (83, 20857),

Gene: Chridison_21 Start: 18422, Stop: 19261, Start Num: 15

Candidate Starts for Chridison_21:

(Start: 15 @18422 has 87 MA's), (22, 18518), (32, 18638), (38, 18764), (40, 18776), (50, 18917), (61, 19007), (70, 19112), (81, 19199), (83, 19226),

Gene: Christian_21 Start: 18443, Stop: 19306, Start Num: 15

Candidate Starts for Christian_21:

(Start: 15 @18443 has 87 MA's), (29, 18638), (32, 18656), (38, 18782), (39, 18785), (40, 18794), (43, 18824), (49, 18932), (50, 18938), (55, 18968), (61, 19028), (62, 19034), (66, 19079), (71, 19139), (74, 19190), (81, 19244), (83, 19271),

Gene: CristinaYang_21 Start: 18443, Stop: 19306, Start Num: 15

Candidate Starts for CristinaYang_21:

(Start: 15 @18443 has 87 MA's), (29, 18638), (32, 18656), (39, 18785), (43, 18824), (49, 18932), (50, 18938), (55, 18968), (61, 19028), (62, 19034), (66, 19079), (71, 19139), (74, 19190), (81, 19244), (83, 19271),

Gene: Daiboju_21 Start: 18436, Stop: 19278, Start Num: 15

Candidate Starts for Daiboju_21:

(2, 18094), (5, 18187), (Start: 15 @18436 has 87 MA's), (32, 18652), (50, 18931), (58, 18988), (61, 19021), (62, 19027), (70, 19126), (73, 19150), (76, 19183), (81, 19216), (83, 19243),

Gene: Dino_25 Start: 19988, Stop: 20845, Start Num: 15

Candidate Starts for Dino_25:

(Start: 15 @19988 has 87 MA's), (29, 20180), (30, 20183), (31, 20195), (32, 20198), (43, 20366), (47, 20444), (49, 20474), (50, 20480), (61, 20570), (62, 20576), (70, 20675), (74, 20732), (81, 20783), (82, 20789), (83, 20810),

Gene: DrRobert_21 Start: 18443, Stop: 19306, Start Num: 15

Candidate Starts for DrRobert_21:

(Start: 15 @18443 has 87 MA's), (29, 18638), (32, 18656), (38, 18782), (39, 18785), (40, 18794), (43, 18824), (49, 18932), (50, 18938), (55, 18968), (61, 19028), (62, 19034), (66, 19079), (71, 19139), (74, 19190), (81, 19244), (83, 19271),

Gene: DreamTeam_21 Start: 18481, Stop: 19338, Start Num: 15

Candidate Starts for DreamTeam_21:

(5, 18232), (Start: 15 @18481 has 87 MA's), (29, 18673), (32, 18691), (38, 18817), (39, 18820), (40, 18829), (42, 18850), (43, 18859), (49, 18967), (50, 18973), (55, 19003), (61, 19063), (62, 19069), (66, 19114), (74, 19225), (83, 19303),

Gene: Dunamis_24 Start: 15879, Stop: 16523, Start Num: 15

Candidate Starts for Dunamis_24:

(10, 15831), (Start: 15 @15879 has 87 MA's), (19, 15930), (24, 16014), (25, 16017), (32, 16080), (37, 16197), (39, 16209), (53, 16368),

Gene: EstebanJulior_21 Start: 18446, Stop: 19306, Start Num: 15

Candidate Starts for EstebanJulior_21:

(5, 18197), (Start: 15 @18446 has 87 MA's), (18, 18500), (28, 18608), (30, 18641), (31, 18653), (32, 18656), (39, 18785), (49, 18932), (50, 18938), (55, 18968), (61, 19028), (62, 19034), (66, 19079), (74, 19190), (81, 19244), (83, 19271),

Gene: Eunoia_21 Start: 18421, Stop: 19260, Start Num: 15

Candidate Starts for Eunoia_21:

(Start: 15 @18421 has 87 MA's), (22, 18517), (32, 18637), (38, 18763), (40, 18775), (50, 18916), (61, 19006), (70, 19111), (81, 19198), (83, 19225),

Gene: Fluke_25 Start: 20031, Stop: 20888, Start Num: 15

Candidate Starts for Fluke_25:

(Start: 15 @20031 has 87 MA's), (29, 20223), (30, 20226), (31, 20238), (43, 20409), (47, 20487), (49, 20517), (50, 20523), (61, 20613), (62, 20619), (70, 20718), (74, 20775), (77, 20808), (81, 20826), (82, 20832), (83, 20853),

Gene: Gisselle_21 Start: 18481, Stop: 19338, Start Num: 15

Candidate Starts for Gisselle_21:

(5, 18232), (Start: 15 @18481 has 87 MA's), (29, 18673), (32, 18691), (38, 18817), (39, 18820), (40, 18829), (42, 18850), (43, 18859), (49, 18967), (50, 18973), (55, 19003), (61, 19063), (62, 19069), (66, 19114), (74, 19225), (83, 19303),

Gene: Glenn_25 Start: 20040, Stop: 20897, Start Num: 15

Candidate Starts for Glenn_25:

(Start: 15 @20040 has 87 MA's), (29, 20232), (30, 20235), (31, 20247), (43, 20418), (47, 20496), (49, 20526), (50, 20532), (61, 20622), (62, 20628), (70, 20727), (74, 20784), (77, 20817), (81, 20835), (82, 20841), (83, 20862),

Gene: Goodgraces_22 Start: 15936, Stop: 16580, Start Num: 15

Candidate Starts for Goodgraces_22:

(Start: 15 @15936 has 87 MA's), (19, 15987), (24, 16071), (25, 16074), (32, 16137), (37, 16254), (39, 16266), (53, 16425),

Gene: GreenHearts_25 Start: 20150, Stop: 20986, Start Num: 15

Candidate Starts for GreenHearts_25:

(Start: 15 @20150 has 87 MA's), (20, 20216), (28, 20312), (29, 20342), (30, 20345), (32, 20360), (38, 20486), (39, 20489), (40, 20498), (43, 20528), (50, 20642), (52, 20651), (57, 20681), (58, 20699), (61, 20732), (62, 20738), (72, 20852), (81, 20924), (83, 20951), (84, 20963),

Gene: Greenhouse_25 Start: 20074, Stop: 20910, Start Num: 15

Candidate Starts for Greenhouse_25:

(Start: 15 @20074 has 87 MA's), (20, 20140), (28, 20236), (29, 20266), (30, 20269), (32, 20284), (38, 20410), (39, 20413), (40, 20422), (50, 20566), (52, 20575), (57, 20605), (58, 20623), (61, 20656), (62, 20662), (72, 20776), (81, 20848), (83, 20875), (84, 20887),

Gene: HeadNerd_21 Start: 18441, Stop: 19298, Start Num: 15

Candidate Starts for HeadNerd_21:

(5, 18192), (Start: 15 @18441 has 87 MA's), (29, 18633), (32, 18651), (39, 18780), (43, 18819), (49, 18927), (50, 18933), (61, 19023), (62, 19029), (66, 19074), (74, 19185), (81, 19236), (83, 19263),

Gene: Herb_21 Start: 18436, Stop: 19278, Start Num: 15

Candidate Starts for Herb_21:

(2, 18094), (5, 18187), (Start: 15 @18436 has 87 MA's), (32, 18652), (50, 18931), (58, 18988), (61, 19021), (62, 19027), (70, 19126), (73, 19150), (76, 19183), (81, 19216), (83, 19243),

Gene: Huckleberry_21 Start: 18441, Stop: 19298, Start Num: 15

Candidate Starts for Huckleberry_21:

(5, 18192), (Start: 15 @18441 has 87 MA's), (29, 18633), (32, 18651), (39, 18780), (43, 18819), (49, 18927), (50, 18933), (61, 19023), (62, 19029), (66, 19074), (74, 19185), (81, 19236), (83, 19263),

Gene: Hum25_23 Start: 17016, Stop: 17738, Start Num: 14

Candidate Starts for Hum25_23:

(11, 16989), (Start: 14 @17016 has 4 MA's), (20, 17079), (25, 17157), (29, 17202), (33, 17232), (35, 17241), (37, 17337), (45, 17427), (51, 17502), (53, 17514), (59, 17550), (62, 17580), (63, 17592), (68, 17643), (72, 17682),

Gene: HunterDalle_21 Start: 18421, Stop: 19260, Start Num: 15

Candidate Starts for HunterDalle_21:

(Start: 15 @18421 has 87 MA's), (22, 18517), (26, 18583), (32, 18637), (38, 18763), (40, 18775), (50, 18916), (61, 19006), (69, 19090), (70, 19111), (81, 19198), (83, 19225),

Gene: Huntingdon_25 Start: 20042, Stop: 20878, Start Num: 15

Candidate Starts for Huntingdon_25:

(Start: 15 @20042 has 87 MA's), (29, 20234), (31, 20249), (38, 20378), (39, 20381), (40, 20390), (42, 20411), (43, 20420), (47, 20498), (49, 20528), (50, 20534), (52, 20543), (57, 20573), (61, 20624), (62, 20630), (71, 20735), (73, 20753), (75, 20786), (81, 20816), (83, 20843), (84, 20855),

Gene: Immaculata_25 Start: 20034, Stop: 20891, Start Num: 15

Candidate Starts for Immaculata_25:

(Start: 15 @20034 has 87 MA's), (29, 20226), (30, 20229), (31, 20241), (43, 20412), (47, 20490), (49, 20520), (50, 20526), (61, 20616), (62, 20622), (70, 20721), (74, 20778), (80, 20826), (81, 20829), (82, 20835), (83, 20856),

Gene: Joann_25 Start: 20008, Stop: 20844, Start Num: 15

Candidate Starts for Joann_25:

(Start: 15 @20008 has 87 MA's), (20, 20074), (28, 20170), (29, 20200), (30, 20203), (31, 20215), (32, 20218), (38, 20344), (39, 20347), (40, 20356), (43, 20386), (50, 20500), (52, 20509), (57, 20539), (58, 20557), (61, 20590), (62, 20596), (72, 20710), (81, 20782), (83, 20809), (84, 20821),

Gene: Jumboset_25 Start: 19983, Stop: 20840, Start Num: 15

Candidate Starts for Jumboset_25:

(Start: 15 @19983 has 87 MA's), (29, 20175), (30, 20178), (31, 20190), (43, 20361), (47, 20439), (49, 20469), (50, 20475), (61, 20565), (62, 20571), (70, 20670), (74, 20727), (81, 20778), (82, 20784), (83, 20805),

Gene: Kalizoi_25 Start: 19982, Stop: 20839, Start Num: 15

Candidate Starts for Kalizoi_25:

(Start: 15 @19982 has 87 MA's), (29, 20174), (30, 20177), (31, 20189), (32, 20192), (43, 20360), (47, 20438), (49, 20468), (50, 20474), (61, 20564), (62, 20570), (70, 20669), (74, 20726), (81, 20777), (82, 20783), (83, 20804),

Gene: KingBob_21 Start: 18436, Stop: 19278, Start Num: 15

Candidate Starts for KingBob_21:

(2, 18094), (5, 18187), (Start: 15 @18436 has 87 MA's), (32, 18652), (50, 18931), (58, 18988), (61, 19021), (62, 19027), (70, 19126), (73, 19150), (76, 19183), (81, 19216), (83, 19243),

Gene: Kittykat_21 Start: 18465, Stop: 19322, Start Num: 15

Candidate Starts for Kittykat_21:

(Start: 15 @18465 has 87 MA's), (29, 18657), (32, 18675), (38, 18801), (39, 18804), (43, 18843), (49, 18951), (50, 18957), (55, 18987), (61, 19047), (62, 19053), (66, 19098), (70, 19152), (74, 19209), (81, 19260), (83, 19287),

Gene: Korra_26 Start: 19988, Stop: 20845, Start Num: 15

Candidate Starts for Korra_26:

(Start: 15 @19988 has 87 MA's), (29, 20180), (30, 20183), (31, 20195), (43, 20366), (47, 20444), (49, 20474), (50, 20480), (61, 20570), (62, 20576), (70, 20675), (74, 20732), (81, 20783), (82, 20789), (83, 20810),

Gene: Lakshmi_25 Start: 20034, Stop: 20870, Start Num: 15

Candidate Starts for Lakshmi_25:

(Start: 15 @20034 has 87 MA's), (20, 20100), (28, 20196), (29, 20226), (30, 20229), (32, 20244), (38, 20370), (39, 20373), (40, 20382), (50, 20526), (52, 20535), (57, 20565), (58, 20583), (61, 20616), (62, 20622), (72, 20736), (81, 20808), (83, 20835), (84, 20847),

Gene: Lasagna_21 Start: 18443, Stop: 19306, Start Num: 15

Candidate Starts for Lasagna_21:

(Start: 15 @18443 has 87 MA's), (29, 18638), (32, 18656), (39, 18785), (40, 18794), (43, 18824), (49, 18932), (50, 18938), (55, 18968), (61, 19028), (62, 19034), (66, 19079), (71, 19139), (74, 19190), (81, 19244), (83, 19271),

Gene: Lennox_21 Start: 18431, Stop: 19294, Start Num: 15

Candidate Starts for Lennox_21:

(Start: 15 @18431 has 87 MA's), (29, 18626), (32, 18644), (39, 18773), (43, 18812), (49, 18920), (50, 18926), (55, 18956), (61, 19016), (62, 19022), (66, 19067), (71, 19127), (74, 19178), (81, 19232), (83, 19259),

Gene: LilStuart_21 Start: 18431, Stop: 19294, Start Num: 15

Candidate Starts for LilStuart_21:

(Start: 15 @18431 has 87 MA's), (29, 18626), (32, 18644), (39, 18773), (43, 18812), (49, 18920), (50, 18926), (55, 18956), (61, 19016), (62, 19022), (66, 19067), (71, 19127), (74, 19178), (81, 19232), (83, 19259),

Gene: Litotes_25 Start: 20031, Stop: 20867, Start Num: 15

Candidate Starts for Litotes_25:

(5, 19782), (Start: 15 @20031 has 87 MA's), (22, 20121), (29, 20223), (32, 20241), (39, 20370), (40, 20379), (42, 20400), (49, 20517), (50, 20523), (61, 20613), (62, 20619), (70, 20718), (78, 20790), (83, 20832),

Gene: Lucy_21 Start: 18423, Stop: 19286, Start Num: 15

Candidate Starts for Lucy_21:

(Start: 15 @18423 has 87 MA's), (29, 18618), (32, 18636), (38, 18762), (39, 18765), (40, 18774), (43, 18804), (49, 18912), (50, 18918), (55, 18948), (61, 19008), (62, 19014), (66, 19059), (71, 19119), (74, 19170), (81, 19224), (83, 19251),

Gene: Makoto_21 Start: 18443, Stop: 19306, Start Num: 15

Candidate Starts for Makoto_21:

(Start: 15 @18443 has 87 MA's), (29, 18638), (32, 18656), (38, 18782), (39, 18785), (43, 18824), (49, 18932), (50, 18938), (55, 18968), (61, 19028), (62, 19034), (66, 19079), (71, 19139), (74, 19190), (81, 19244), (83, 19271),

Gene: MamaPearl_21 Start: 18446, Stop: 19306, Start Num: 15

Candidate Starts for MamaPearl_21:

(5, 18197), (Start: 15 @18446 has 87 MA's), (18, 18500), (28, 18608), (30, 18641), (31, 18653), (32, 18656), (39, 18785), (49, 18932), (50, 18938), (55, 18968), (61, 19028), (62, 19034), (66, 19079), (74, 19190), (81, 19244), (83, 19271),

Gene: Maria1952_21 Start: 18436, Stop: 19278, Start Num: 15

Candidate Starts for Maria1952_21:

(2, 18094), (5, 18187), (Start: 15 @18436 has 87 MA's), (32, 18652), (50, 18931), (58, 18988), (61, 19021), (62, 19027), (70, 19126), (73, 19150), (76, 19183), (81, 19216), (83, 19243),

Gene: MeganNoll_25 Start: 20040, Stop: 20897, Start Num: 15

Candidate Starts for MeganNoll_25:

(Start: 15 @20040 has 87 MA's), (29, 20232), (30, 20235), (31, 20247), (43, 20418), (47, 20496), (49, 20526), (50, 20532), (61, 20622), (62, 20628), (70, 20727), (74, 20784), (81, 20835), (82, 20841), (83, 20862),

Gene: Mendel_22 Start: 15637, Stop: 16281, Start Num: 15

Candidate Starts for Mendel_22:

(10, 15589), (Start: 15 @15637 has 87 MA's), (19, 15688), (25, 15775), (37, 15955), (39, 15967), (53, 16126),

Gene: Misaeng_25 Start: 20124, Stop: 20981, Start Num: 15

Candidate Starts for Misaeng_25:

(Start: 15 @20124 has 87 MA's), (20, 20190), (28, 20286), (29, 20316), (31, 20331), (38, 20460), (39, 20463), (40, 20472), (43, 20502), (49, 20610), (50, 20616), (55, 20646), (57, 20655), (61, 20706), (62, 20712), (64, 20733), (66, 20757), (72, 20826), (74, 20868), (79, 20916), (81, 20919), (83, 20946), (84, 20958),

Gene: Moki_21 Start: 18441, Stop: 19298, Start Num: 15

Candidate Starts for Moki_21:

(5, 18192), (Start: 15 @18441 has 87 MA's), (29, 18633), (32, 18651), (39, 18780), (43, 18819), (49, 18927), (50, 18933), (61, 19023), (62, 19029), (66, 19074), (74, 19185), (81, 19236), (83, 19263),

Gene: MrGloopy_25 Start: 19974, Stop: 20831, Start Num: 15

Candidate Starts for MrGloopy_25:

(Start: 15 @19974 has 87 MA's), (29, 20166), (30, 20169), (31, 20181), (43, 20352), (47, 20430), (49, 20460), (50, 20466), (61, 20556), (62, 20562), (70, 20661), (74, 20718), (81, 20769), (82, 20775), (83, 20796),

Gene: Nancia_21 Start: 18443, Stop: 19306, Start Num: 15

Candidate Starts for Nancia_21:

(Start: 15 @18443 has 87 MA's), (29, 18638), (32, 18656), (39, 18785), (43, 18824), (49, 18932), (50, 18938), (55, 18968), (61, 19028), (62, 19034), (66, 19079), (71, 19139), (74, 19190), (81, 19244), (83, 19271),

Gene: Neuville_21 Start: 14177, Stop: 15061, Start Num: 15

Candidate Starts for Neuville_21:

(Start: 15 @14177 has 87 MA's), (34, 14399), (41, 14525), (44, 14549), (45, 14585), (46, 14612), (48, 14663), (86, 15017),

Gene: Nubia_25 Start: 19994, Stop: 20830, Start Num: 15

Candidate Starts for Nubia_25:

(Start: 15 @19994 has 87 MA's), (20, 20060), (28, 20156), (29, 20186), (30, 20189), (32, 20204), (38, 20330), (39, 20333), (40, 20342), (43, 20372), (50, 20486), (52, 20495), (57, 20525), (58, 20543), (61, 20576), (62, 20582), (72, 20696), (81, 20768), (83, 20795), (84, 20807),

Gene: OMalley_21 Start: 18421, Stop: 19260, Start Num: 15

Candidate Starts for OMalley_21:

(Start: 15 @18421 has 87 MA's), (22, 18517), (32, 18637), (38, 18763), (40, 18775), (50, 18916), (61, 19006), (70, 19111), (81, 19198), (83, 19225),

Gene: OurGirlNessie_21 Start: 18423, Stop: 19286, Start Num: 15

Candidate Starts for OurGirlNessie_21:

(Start: 15 @18423 has 87 MA's), (29, 18618), (32, 18636), (38, 18762), (39, 18765), (40, 18774), (43, 18804), (49, 18912), (50, 18918), (55, 18948), (61, 19008), (62, 19014), (66, 19059), (71, 19119), (74, 19170), (81, 19224), (83, 19251),

Gene: Oxynfrius_25 Start: 20007, Stop: 20843, Start Num: 15

Candidate Starts for Oxynfrius_25:

(Start: 15 @20007 has 87 MA's), (20, 20073), (28, 20169), (29, 20199), (30, 20202), (32, 20217), (38, 20343), (39, 20346), (40, 20355), (43, 20385), (50, 20499), (52, 20508), (57, 20538), (58, 20556), (61, 20589), (62, 20595), (72, 20709), (81, 20781), (83, 20808), (84, 20820),

Gene: PartyCup_25 Start: 20078, Stop: 20914, Start Num: 15

Candidate Starts for PartyCup_25:

(5, 19829), (Start: 15 @20078 has 87 MA's), (29, 20270), (32, 20288), (38, 20414), (39, 20417), (40, 20426), (42, 20447), (43, 20456), (49, 20564), (50, 20570), (61, 20660), (62, 20666), (70, 20765), (78, 20837), (83, 20879),

Gene: Pigu_22 Start: 17033, Stop: 17926, Start Num: 14

Candidate Starts for Pigu_22:

(8, 16931), (Start: 14 @17033 has 4 MA's), (19, 17087), (20, 17096), (23, 17129), (24, 17171), (25, 17174), (33, 17249), (45, 17444), (46, 17471), (54, 17537), (81, 17822), (88, 17894),

Gene: PinkFriday_21 Start: 18457, Stop: 19320, Start Num: 15

Candidate Starts for PinkFriday_21:

(Start: 15 @18457 has 87 MA's), (32, 18673), (50, 18952), (55, 18982), (58, 19009), (61, 19042), (62, 19048), (66, 19093), (70, 19147), (74, 19204), (81, 19258), (83, 19285),

Gene: PitaDog_21 Start: 18434, Stop: 19297, Start Num: 15

Candidate Starts for PitaDog_21:

(Start: 15 @18434 has 87 MA's), (29, 18629), (32, 18647), (38, 18773), (39, 18776), (40, 18785), (43, 18815), (49, 18923), (50, 18929), (55, 18959), (61, 19019), (62, 19025), (66, 19070), (71, 19130), (74, 19181), (81, 19235), (83, 19262),

Gene: Potatoes_25 Start: 20035, Stop: 20892, Start Num: 15

Candidate Starts for Potatoes_25:

(Start: 15 @20035 has 87 MA's), (29, 20227), (30, 20230), (31, 20242), (43, 20413), (47, 20491), (49, 20521), (50, 20527), (61, 20617), (62, 20623), (70, 20722), (74, 20779), (80, 20827), (81, 20830), (82, 20836), (83, 20857),

Gene: Preamble_21 Start: 18442, Stop: 19299, Start Num: 15

Candidate Starts for Preamble_21:

(Start: 15 @18442 has 87 MA's), (29, 18634), (32, 18652), (38, 18778), (39, 18781), (43, 18820), (49, 18928), (50, 18934), (55, 18964), (61, 19024), (62, 19030), (66, 19075), (70, 19129), (74, 19186), (81, 19237), (83, 19264),

Gene: Pterodactyl_21 Start: 18424, Stop: 19287, Start Num: 15

Candidate Starts for Pterodactyl_21:

(Start: 15 @18424 has 87 MA's), (29, 18619), (32, 18637), (38, 18763), (39, 18766), (43, 18805), (49, 18913), (50, 18919), (55, 18949), (61, 19009), (62, 19015), (66, 19060), (71, 19120), (74, 19171), (81, 19225), (83, 19252),

Gene: Pumancara_21 Start: 18439, Stop: 19302, Start Num: 15

Candidate Starts for Pumancara_21:

(Start: 15 @18439 has 87 MA's), (32, 18655), (50, 18934), (55, 18964), (58, 18991), (61, 19024), (62, 19030), (66, 19075), (70, 19129), (74, 19186), (81, 19240), (83, 19267),

Gene: RAP15_25 Start: 20040, Stop: 20897, Start Num: 15

Candidate Starts for RAP15_25:

(Start: 15 @20040 has 87 MA's), (29, 20232), (30, 20235), (31, 20247), (43, 20418), (47, 20496), (49, 20526), (50, 20532), (61, 20622), (62, 20628), (70, 20727), (74, 20784), (81, 20835), (82, 20841), (83, 20862),

Gene: RcigaStruga_25 Start: 20042, Stop: 20878, Start Num: 15

Candidate Starts for RcigaStruga_25:

(Start: 15 @20042 has 87 MA's), (29, 20234), (31, 20249), (38, 20378), (39, 20381), (40, 20390), (42, 20411), (43, 20420), (47, 20498), (49, 20528), (50, 20534), (52, 20543), (57, 20573), (61, 20624), (62, 20630), (71, 20735), (73, 20753), (75, 20786), (81, 20816), (83, 20843), (84, 20855),

Gene: Riovina_21 Start: 18421, Stop: 19260, Start Num: 15

Candidate Starts for Riovina_21:

(Start: 15 @18421 has 87 MA's), (22, 18517), (32, 18637), (38, 18763), (40, 18775), (50, 18916), (61, 19006), (70, 19111), (81, 19198), (83, 19225),

Gene: Riverdale_25 Start: 19970, Stop: 20827, Start Num: 15

Candidate Starts for Riverdale_25:

(Start: 15 @19970 has 87 MA's), (29, 20162), (30, 20165), (31, 20177), (47, 20426), (49, 20456), (50, 20462), (61, 20552), (62, 20558), (70, 20657), (74, 20714), (77, 20747), (81, 20765), (82, 20771), (83, 20792),

Gene: Rozby_25 Start: 19971, Stop: 20828, Start Num: 15

Candidate Starts for Rozby_25:

(Start: 15 @19971 has 87 MA's), (29, 20163), (30, 20166), (31, 20178), (47, 20427), (49, 20457), (50, 20463), (61, 20553), (62, 20559), (70, 20658), (74, 20715), (77, 20748), (81, 20766), (82, 20772), (83, 20793),

Gene: Sarge_22 Start: 17291, Stop: 18013, Start Num: 14

Candidate Starts for Sarge_22:

(Start: 14 @17291 has 4 MA's), (19, 17345), (24, 17429), (27, 17444), (33, 17507), (45, 17702), (53, 17789), (63, 17864), (67, 17903), (68, 17915),

Gene: Savage2526_25 Start: 20034, Stop: 20891, Start Num: 15

Candidate Starts for Savage2526_25:

(Start: 15 @20034 has 87 MA's), (29, 20226), (30, 20229), (31, 20241), (43, 20412), (47, 20490), (49, 20520), (50, 20526), (61, 20616), (62, 20622), (70, 20721), (74, 20778), (81, 20829), (82, 20835), (83, 20856),

Gene: Scuttle_25 Start: 20039, Stop: 20896, Start Num: 15

Candidate Starts for Scuttle_25:

(Start: 15 @20039 has 87 MA's), (29, 20231), (30, 20234), (31, 20246), (43, 20417), (47, 20495), (49, 20525), (50, 20531), (61, 20621), (62, 20627), (70, 20726), (74, 20783), (81, 20834), (82, 20840), (83, 20861),

Gene: Seldom_20 Start: 16263, Stop: 16907, Start Num: 15

Candidate Starts for Seldom_20:

(10, 16215), (Start: 15 @16263 has 87 MA's), (19, 16314), (24, 16398), (25, 16401), (32, 16464), (37, 16581), (39, 16593), (53, 16752),

Gene: Sergei_21 Start: 18436, Stop: 19278, Start Num: 15

Candidate Starts for Sergei_21:

(2, 18094), (5, 18187), (Start: 15 @18436 has 87 MA's), (32, 18652), (50, 18931), (58, 18988), (61, 19021), (62, 19027), (70, 19126), (73, 19150), (76, 19183), (81, 19216), (83, 19243),

Gene: Supakev_21 Start: 18423, Stop: 19262, Start Num: 15

Candidate Starts for Supakev_21:

(Start: 15 @18423 has 87 MA's), (22, 18519), (32, 18639), (38, 18765), (40, 18777), (50, 18918), (61, 19008), (70, 19113), (81, 19200), (83, 19227),

Gene: Suppi_25 Start: 20081, Stop: 20917, Start Num: 15

Candidate Starts for Suppi_25:

(5, 19832), (Start: 15 @20081 has 87 MA's), (29, 20273), (32, 20291), (39, 20420), (40, 20429), (42, 20450), (43, 20459), (49, 20567), (50, 20573), (61, 20663), (62, 20669), (70, 20768), (78, 20840), (83, 20882),

Gene: Swim_25 Start: 16136, Stop: 16780, Start Num: 15

Candidate Starts for Swim_25:

(10, 16088), (Start: 15 @16136 has 87 MA's), (19, 16187), (24, 16271), (25, 16274), (32, 16337), (37, 16454), (39, 16466), (53, 16625),

Gene: TMaxx_21 Start: 14021, Stop: 14869, Start Num: 13

Candidate Starts for TMaxx_21:

(13, 14021), (17, 14042), (29, 14210), (34, 14246), (36, 14291), (37, 14339), (44, 14396), (46, 14459), (56, 14525), (85, 14813), (87, 14834),

Gene: TattModd_25 Start: 20033, Stop: 20890, Start Num: 15

Candidate Starts for TattModd_25:

(Start: 15 @20033 has 87 MA's), (29, 20225), (30, 20228), (31, 20240), (43, 20411), (47, 20489), (49, 20519), (50, 20525), (61, 20615), (62, 20621), (70, 20720), (74, 20777), (77, 20810), (81, 20828), (82, 20834), (83, 20855),

Gene: Temper16_21 Start: 18436, Stop: 19278, Start Num: 15

Candidate Starts for Temper16_21:

(2, 18094), (5, 18187), (Start: 15 @18436 has 87 MA's), (32, 18652), (50, 18931), (58, 18988), (61, 19021), (62, 19027), (70, 19126), (73, 19150), (76, 19183), (81, 19216), (83, 19243),

Gene: Tillums_26 Start: 16278, Stop: 16925, Start Num: 15

Candidate Starts for Tillums_26:

(1, 15915), (3, 15957), (4, 15966), (6, 16056), (9, 16221), (Start: 15 @16278 has 87 MA's), (19, 16329), (24, 16413), (25, 16416), (37, 16596), (39, 16608), (53, 16770),

Gene: Urla_21 Start: 18448, Stop: 19308, Start Num: 15

Candidate Starts for Urla_21:

(5, 18199), (Start: 15 @18448 has 87 MA's), (18, 18502), (28, 18610), (29, 18640), (30, 18643), (31, 18655), (32, 18658), (39, 18787), (43, 18826), (49, 18934), (50, 18940), (55, 18970), (61, 19030), (62, 19036), (66, 19081), (74, 19192), (81, 19246), (83, 19273),

Gene: Vallejo_25 Start: 19972, Stop: 20829, Start Num: 15

Candidate Starts for Vallejo_25:

(Start: 15 @19972 has 87 MA's), (29, 20164), (30, 20167), (31, 20179), (43, 20350), (47, 20428), (49, 20458), (50, 20464), (61, 20554), (62, 20560), (70, 20659), (74, 20716), (77, 20749), (81, 20767), (82, 20773), (83, 20794),

Gene: VroomVroom_21 Start: 17771, Stop: 18499, Start Num: 14

Candidate Starts for VroomVroom_21:

(7, 17621), (Start: 14 @17771 has 4 MA's), (21, 17846), (29, 17960), (43, 18146), (46, 18212), (60, 18332), (65, 18389),

Gene: Vulture_21 Start: 18421, Stop: 19260, Start Num: 15

Candidate Starts for Vulture_21:

(Start: 15 @18421 has 87 MA's), (22, 18517), (26, 18583), (32, 18637), (38, 18763), (40, 18775), (50, 18916), (61, 19006), (69, 19090), (70, 19111), (81, 19198), (83, 19225),

Gene: Wawa_25 Start: 20009, Stop: 20866, Start Num: 15

Candidate Starts for Wawa_25:

(Start: 15 @20009 has 87 MA's), (16, 20021), (29, 20201), (30, 20204), (31, 20216), (47, 20465), (49, 20495), (50, 20501), (61, 20591), (62, 20597), (70, 20696), (74, 20753), (77, 20786), (81, 20804), (82, 20810), (83, 20831),

Gene: Wayne_25 Start: 20127, Stop: 20963, Start Num: 15

Candidate Starts for Wayne_25:

(5, 19878), (Start: 15 @20127 has 87 MA's), (29, 20319), (32, 20337), (38, 20463), (39, 20466), (40, 20475), (42, 20496), (43, 20505), (49, 20613), (50, 20619), (61, 20709), (62, 20715), (70, 20814), (78, 20886), (83, 20928),

Gene: WonderBoy_21 Start: 18424, Stop: 19287, Start Num: 15

Candidate Starts for WonderBoy_21:

(Start: 15 @18424 has 87 MA's), (29, 18619), (32, 18637), (38, 18763), (39, 18766), (43, 18805), (49, 18913), (50, 18919), (55, 18949), (61, 19009), (62, 19015), (66, 19060), (74, 19171), (81, 19225), (83, 19252),

Gene: Zorro_25 Start: 19988, Stop: 20845, Start Num: 15

Candidate Starts for Zorro_25:

(Start: 15 @19988 has 87 MA's), (29, 20180), (30, 20183), (31, 20195), (32, 20198), (43, 20366), (47, 20444), (49, 20474), (50, 20480), (61, 20570), (62, 20576), (70, 20675), (74, 20732), (81, 20783), (82, 20789), (83, 20810),