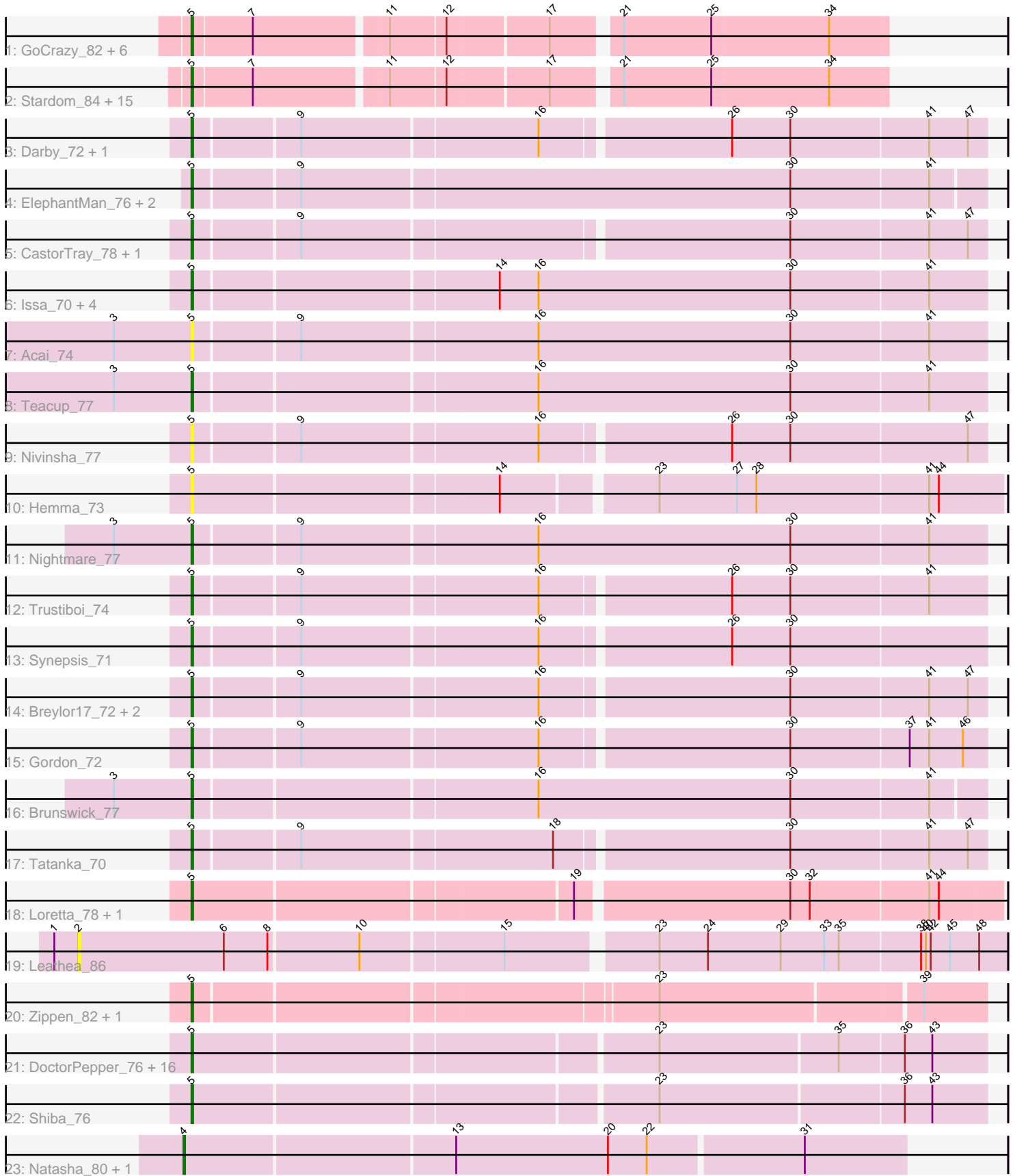


Pham 294683



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 294683 Report

This analysis was run 04/18/26 on database version 643.

Pham number 294683 has 73 members, 13 are drafts.

Phages represented in each track:

- Track 1 : GoCrazy_82, Xenomorph_80, BenitoAntonio_85, Benllo_82, Cheesy_86, Bowling_87, KeaneyLin_82
- Track 2 : Stardom_84, Kardesai_85, Heisenberger_84, Elsa_85, Correa_83, Tribby_87, Mooshroom_86, Arcadia_85, Dynamite_85, Hankly_85, JEGGS_84, Mudcat_81, NapoleonB_86, Nason_85, YoshiYama_86, Circum_85
- Track 3 : Darby_72, AreFloNak_80
- Track 4 : ElephantMan_76, LucySwiss_76, Niktson_76
- Track 5 : CastorTray_78, ScienceWizSam_77
- Track 6 : Issa_70, Dinallo_70, CapnMurica_72, MiniBagel_76, Tenno_75
- Track 7 : Acai_74
- Track 8 : Teacup_77
- Track 9 : Nivinsha_77
- Track 10 : Hemma_73
- Track 11 : Nightmare_77
- Track 12 : Trustiboi_74
- Track 13 : Synopsis_71
- Track 14 : Breylor17_72, Westerlin_73, DevitoJr_75
- Track 15 : Gordon_72
- Track 16 : Brunswick_77
- Track 17 : Tatanka_70
- Track 18 : Loretta_78, Ingrid_82
- Track 19 : Leathea_86
- Track 20 : Zippen_82, Inked_82
- Track 21 : DoctorPepper_76, MrAaronian_77, ProfFrink_77, HerbBucket_76, Djungelskog_76, Salk_77, Spain_77, Egad_77, Stayer_77, Raunak_78, Linda_77, Boog_76, BronxBay_77, StarLord_77, Sloopyjoe_77, Jeremy4pt0_74, Michelle_77
- Track 22 : Shiba_76
- Track 23 : Natasha_80, RustyBoy_81

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

The start number called the most often in the published annotations is 5, it was called in 58 of the 60 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Acai_74, Arcadia_85, AreFloNak_80, BenitoAntonio_85, Benllo_82, Boog_76, Bowling_87, Breylor17_72, BronxBay_77, Brunswick_77, CapnMurica_72, CastorTray_78, Cheesy_86, Circum_85, Correa_83, Darby_72, DevitoJr_75, Dinallo_70, Djungelskog_76, DoctorPepper_76, Dynamite_85, Egad_77, ElephantMan_76, Elsa_85, GoCrazy_82, Gordon_72, Hankly_85, Heisenberger_84, Hemma_73, HerbBucket_76, Ingrid_82, Inked_82, Issa_70, JEGGS_84, Jeremy4pt0_74, Kardesai_85, KeaneyLin_82, Linda_77, Loretta_78, LucySwiss_76, Michelle_77, MiniBagel_76, Mooshroom_86, MrAaronian_77, Mudcat_81, NapoleonB_86, Nason_85, Nightmare_77, Niktson_76, Nivinsha_77, ProfFrink_77, Raunak_78, Salk_77, ScienceWizSam_77, Shiba_76, Sloopyjoe_77, Spain_77, StarLord_77, Stardom_84, Stayer_77, Synopsis_71, Tatanka_70, Teacup_77, Tenno_75, Tribby_87, Trustiboi_74, Westerlin_73, Xenomorph_80, YoshiYama_86, Zippen_82,

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

-

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

- Leathea_86, Natasha_80, RustyBoy_81,

Summary by start number:

Start 2:

- Found in 1 of 73 (1.4%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Leathea_86 (AU6),

Start 4:

- Found in 2 of 73 (2.7%) of genes in pham
- Manual Annotations of this start: 2 of 60
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Natasha_80 (AW), RustyBoy_81 (AW),

Start 5:

- Found in 70 of 73 (95.9%) of genes in pham
- Manual Annotations of this start: 58 of 60
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Acai_74 (AU1), Arcadia_85 (AM), AreFloNak_80 (AU1), BenitoAntonio_85 (AM), Benllo_82 (AM), Boog_76 (AW), Bowling_87 (AM), Breylor17_72 (AU1), BronxBay_77 (AW), Brunswick_77 (AU1), CapnMurica_72 (AU1), CastorTray_78 (AU1), Cheesy_86 (AM), Circum_85 (AM), Correa_83 (AM), Darby_72 (AU1), DevitoJr_75 (AU1), Dinallo_70 (AU1), Djungelskog_76 (AW), DoctorPepper_76 (AW), Dynamite_85 (AM), Egad_77 (AW), ElephantMan_76 (AU1), Elsa_85 (AM), GoCrazy_82 (AM), Gordon_72 (AU1), Hankly_85 (AM), Heisenberger_84 (AM), Hemma_73 (AU1), HerbBucket_76 (AW), Ingrid_82 (AU3), Inked_82 (AU7), Issa_70 (AU1), JEGGS_84 (AM), Jeremy4pt0_74 (AW), Kardesai_85 (AM), KeaneyLin_82 (AM), Linda_77 (AW), Loretta_78 (AU3), LucySwiss_76 (AU1), Michelle_77 (AW), MiniBagel_76 (AU1), Mooshroom_86 (AM), MrAaronian_77 (AW), Mudcat_81 (AM), NapoleonB_86 (AM), Nason_85 (AM), Nightmare_77 (AU1), Niktson_76 (AU1), Nivinsha_77 (AU1), ProfFrink_77 (AW), Raunak_78 (AW), Salk_77 (AW), ScienceWizSam_77 (AU1), Shiba_76 (AW),

Sloopyjoe_77 (AW), Spain_77 (AW), StarLord_77 (AW), Stardom_84 (AM), Stayer_77 (AW), Synopsis_71 (AU1), Tatanka_70 (AU1), Teacup_77 (AU1), Tenno_75 (AU1), Tribby_87 (AM), Trustiboi_74 (AU1), Westerlin_73 (AU1), Xenomorph_80 (AM), YoshiYama_86 (AM), Zippen_82 (AU7),

Summary by clusters:

There are 6 clusters represented in this pham: AW, AM, AU1, AU3, AU7, AU6,

Info for manual annotations of cluster AM:

- Start number 5 was manually annotated 21 times for cluster AM.

Info for manual annotations of cluster AU1:

- Start number 5 was manually annotated 19 times for cluster AU1.

Info for manual annotations of cluster AU3:

- Start number 5 was manually annotated 2 times for cluster AU3.

Info for manual annotations of cluster AU7:

- Start number 5 was manually annotated 2 times for cluster AU7.

Info for manual annotations of cluster AW:

- Start number 4 was manually annotated 2 times for cluster AW.
- Start number 5 was manually annotated 14 times for cluster AW.

Gene Information:

Gene: Acai_74 Start: 50191, Stop: 50667, Start Num: 5

Candidate Starts for Acai_74:

(3, 50143), (Start: 5 @50191 has 58 MA's), (9, 50251), (16, 50392), (30, 50548), (41, 50632),

Gene: Arcadia_85 Start: 50574, Stop: 50978, Start Num: 5

Candidate Starts for Arcadia_85:

(Start: 5 @50574 has 58 MA's), (7, 50610), (11, 50688), (12, 50721), (17, 50781), (21, 50817), (25, 50871), (34, 50943),

Gene: AreFloNak_80 Start: 50058, Stop: 50525, Start Num: 5

Candidate Starts for AreFloNak_80:

(Start: 5 @50058 has 58 MA's), (9, 50118), (16, 50259), (26, 50370), (30, 50406), (41, 50490), (47, 50514),

Gene: BenitoAntonio_85 Start: 50151, Stop: 50555, Start Num: 5

Candidate Starts for BenitoAntonio_85:

(Start: 5 @50151 has 58 MA's), (7, 50187), (11, 50265), (12, 50298), (17, 50358), (21, 50394), (25, 50448), (34, 50520),

Gene: Benllo_82 Start: 50469, Stop: 50873, Start Num: 5

Candidate Starts for Benllo_82:

(Start: 5 @50469 has 58 MA's), (7, 50505), (11, 50583), (12, 50616), (17, 50676), (21, 50712), (25, 50766), (34, 50838),

Gene: Boog_76 Start: 47985, Stop: 48449, Start Num: 5

Candidate Starts for Boog_76:

(Start: 5 @47985 has 58 MA's), (23, 48255), (35, 48363), (36, 48402), (43, 48417),

Gene: Bowling_87 Start: 50927, Stop: 51331, Start Num: 5

Candidate Starts for Bowling_87:

(Start: 5 @50927 has 58 MA's), (7, 50963), (11, 51041), (12, 51074), (17, 51134), (21, 51170), (25, 51224), (34, 51296),

Gene: Breylor17_72 Start: 50448, Stop: 50915, Start Num: 5

Candidate Starts for Breylor17_72:

(Start: 5 @50448 has 58 MA's), (9, 50508), (16, 50649), (30, 50796), (41, 50880), (47, 50904),

Gene: BronxBay_77 Start: 48274, Stop: 48738, Start Num: 5

Candidate Starts for BronxBay_77:

(Start: 5 @48274 has 58 MA's), (23, 48544), (35, 48652), (36, 48691), (43, 48706),

Gene: Brunswick_77 Start: 50186, Stop: 50659, Start Num: 5

Candidate Starts for Brunswick_77:

(3, 50138), (Start: 5 @50186 has 58 MA's), (16, 50387), (30, 50543), (41, 50627),

Gene: CapnMurica_72 Start: 50515, Stop: 50991, Start Num: 5

Candidate Starts for CapnMurica_72:

(Start: 5 @50515 has 58 MA's), (14, 50692), (16, 50716), (30, 50872), (41, 50956),

Gene: CastorTray_78 Start: 50576, Stop: 51043, Start Num: 5

Candidate Starts for CastorTray_78:

(Start: 5 @50576 has 58 MA's), (9, 50636), (30, 50924), (41, 51008), (47, 51032),

Gene: Cheesy_86 Start: 50366, Stop: 50770, Start Num: 5

Candidate Starts for Cheesy_86:

(Start: 5 @50366 has 58 MA's), (7, 50402), (11, 50480), (12, 50513), (17, 50573), (21, 50609), (25, 50663), (34, 50735),

Gene: Circum_85 Start: 50423, Stop: 50827, Start Num: 5

Candidate Starts for Circum_85:

(Start: 5 @50423 has 58 MA's), (7, 50459), (11, 50537), (12, 50570), (17, 50630), (21, 50666), (25, 50720), (34, 50792),

Gene: Correa_83 Start: 49923, Stop: 50327, Start Num: 5

Candidate Starts for Correa_83:

(Start: 5 @49923 has 58 MA's), (7, 49959), (11, 50037), (12, 50070), (17, 50130), (21, 50166), (25, 50220), (34, 50292),

Gene: Darby_72 Start: 49622, Stop: 50089, Start Num: 5

Candidate Starts for Darby_72:

(Start: 5 @49622 has 58 MA's), (9, 49682), (16, 49823), (26, 49934), (30, 49970), (41, 50054), (47, 50078),

Gene: DevitoJr_75 Start: 50004, Stop: 50471, Start Num: 5

Candidate Starts for DevitoJr_75:

(Start: 5 @50004 has 58 MA's), (9, 50064), (16, 50205), (30, 50352), (41, 50436), (47, 50460),

Gene: Dinallo_70 Start: 50761, Stop: 51237, Start Num: 5

Candidate Starts for Dinallo_70:

(Start: 5 @50761 has 58 MA's), (14, 50938), (16, 50962), (30, 51118), (41, 51202),

Gene: Djungelskog_76 Start: 48276, Stop: 48740, Start Num: 5

Candidate Starts for Djungelskog_76:

(Start: 5 @48276 has 58 MA's), (23, 48546), (35, 48654), (36, 48693), (43, 48708),

Gene: DoctorPepper_76 Start: 47969, Stop: 48433, Start Num: 5

Candidate Starts for DoctorPepper_76:

(Start: 5 @47969 has 58 MA's), (23, 48239), (35, 48347), (36, 48386), (43, 48401),

Gene: Dynamite_85 Start: 49942, Stop: 50346, Start Num: 5

Candidate Starts for Dynamite_85:

(Start: 5 @49942 has 58 MA's), (7, 49978), (11, 50056), (12, 50089), (17, 50149), (21, 50185), (25, 50239), (34, 50311),

Gene: Egad_77 Start: 48243, Stop: 48707, Start Num: 5

Candidate Starts for Egad_77:

(Start: 5 @48243 has 58 MA's), (23, 48513), (35, 48621), (36, 48660), (43, 48675),

Gene: ElephantMan_76 Start: 50779, Stop: 51252, Start Num: 5

Candidate Starts for ElephantMan_76:

(Start: 5 @50779 has 58 MA's), (9, 50839), (30, 51136), (41, 51220),

Gene: Elsa_85 Start: 50574, Stop: 50978, Start Num: 5

Candidate Starts for Elsa_85:

(Start: 5 @50574 has 58 MA's), (7, 50610), (11, 50688), (12, 50721), (17, 50781), (21, 50817), (25, 50871), (34, 50943),

Gene: GoCrazy_82 Start: 49202, Stop: 49606, Start Num: 5

Candidate Starts for GoCrazy_82:

(Start: 5 @49202 has 58 MA's), (7, 49238), (11, 49316), (12, 49349), (17, 49409), (21, 49445), (25, 49499), (34, 49571),

Gene: Gordon_72 Start: 50418, Stop: 50885, Start Num: 5

Candidate Starts for Gordon_72:

(Start: 5 @50418 has 58 MA's), (9, 50478), (16, 50619), (30, 50766), (37, 50838), (41, 50850), (46, 50871),

Gene: Hankly_85 Start: 49580, Stop: 49984, Start Num: 5

Candidate Starts for Hankly_85:

(Start: 5 @49580 has 58 MA's), (7, 49616), (11, 49694), (12, 49727), (17, 49787), (21, 49823), (25, 49877), (34, 49949),

Gene: Heisenberger_84 Start: 49831, Stop: 50235, Start Num: 5

Candidate Starts for Heisenberger_84:

(Start: 5 @49831 has 58 MA's), (7, 49867), (11, 49945), (12, 49978), (17, 50038), (21, 50074), (25, 50128), (34, 50200),

Gene: Hemma_73 Start: 47826, Stop: 48302, Start Num: 5

Candidate Starts for Hemma_73:

(Start: 5 @47826 has 58 MA's), (14, 48006), (23, 48093), (27, 48141), (28, 48153), (41, 48258), (44, 48264),

Gene: HerbBucket_76 Start: 47969, Stop: 48433, Start Num: 5

Candidate Starts for HerbBucket_76:

(Start: 5 @47969 has 58 MA's), (23, 48239), (35, 48347), (36, 48386), (43, 48401),

Gene: Ingrid_82 Start: 50381, Stop: 50857, Start Num: 5

Candidate Starts for Ingrid_82:

(Start: 5 @50381 has 58 MA's), (19, 50603), (30, 50729), (32, 50741), (41, 50813), (44, 50819),

Gene: Inked_82 Start: 51097, Stop: 51561, Start Num: 5

Candidate Starts for Inked_82:

(Start: 5 @51097 has 58 MA's), (23, 51367), (39, 51523),

Gene: Issa_70 Start: 49586, Stop: 50062, Start Num: 5

Candidate Starts for Issa_70:

(Start: 5 @49586 has 58 MA's), (14, 49763), (16, 49787), (30, 49943), (41, 50027),

Gene: JEGGS_84 Start: 49910, Stop: 50314, Start Num: 5

Candidate Starts for JEGGS_84:

(Start: 5 @49910 has 58 MA's), (7, 49946), (11, 50024), (12, 50057), (17, 50117), (21, 50153), (25, 50207), (34, 50279),

Gene: Jeremy4pt0_74 Start: 47961, Stop: 48425, Start Num: 5

Candidate Starts for Jeremy4pt0_74:

(Start: 5 @47961 has 58 MA's), (23, 48231), (35, 48339), (36, 48378), (43, 48393),

Gene: Kardesai_85 Start: 49517, Stop: 49921, Start Num: 5

Candidate Starts for Kardesai_85:

(Start: 5 @49517 has 58 MA's), (7, 49553), (11, 49631), (12, 49664), (17, 49724), (21, 49760), (25, 49814), (34, 49886),

Gene: KeaneyLin_82 Start: 49645, Stop: 50049, Start Num: 5

Candidate Starts for KeaneyLin_82:

(Start: 5 @49645 has 58 MA's), (7, 49681), (11, 49759), (12, 49792), (17, 49852), (21, 49888), (25, 49942), (34, 50014),

Gene: Leathea_86 Start: 48939, Stop: 49490, Start Num: 2

Candidate Starts for Leathea_86:

(1, 48924), (2, 48939), (6, 49029), (8, 49056), (10, 49110), (15, 49194), (23, 49278), (24, 49308), (29, 49353), (33, 49380), (35, 49389), (38, 49437), (40, 49440), (42, 49443), (45, 49455), (48, 49473),

Gene: Linda_77 Start: 48256, Stop: 48720, Start Num: 5

Candidate Starts for Linda_77:

(Start: 5 @48256 has 58 MA's), (23, 48526), (35, 48634), (36, 48673), (43, 48688),

Gene: Loretta_78 Start: 50381, Stop: 50857, Start Num: 5

Candidate Starts for Loretta_78:

(Start: 5 @50381 has 58 MA's), (19, 50603), (30, 50729), (32, 50741), (41, 50813), (44, 50819),

Gene: LucySwiss_76 Start: 49844, Stop: 50320, Start Num: 5

Candidate Starts for LucySwiss_76:

(Start: 5 @49844 has 58 MA's), (9, 49904), (30, 50201), (41, 50285),

Gene: Michelle_77 Start: 48273, Stop: 48737, Start Num: 5

Candidate Starts for Michelle_77:

(Start: 5 @48273 has 58 MA's), (23, 48543), (35, 48651), (36, 48690), (43, 48705),

Gene: MiniBagel_76 Start: 50519, Stop: 50995, Start Num: 5

Candidate Starts for MiniBagel_76:

(Start: 5 @50519 has 58 MA's), (14, 50696), (16, 50720), (30, 50876), (41, 50960),

Gene: Mooshroom_86 Start: 49517, Stop: 49921, Start Num: 5

Candidate Starts for Mooshroom_86:

(Start: 5 @49517 has 58 MA's), (7, 49553), (11, 49631), (12, 49664), (17, 49724), (21, 49760), (25, 49814), (34, 49886),

Gene: MrAaronian_77 Start: 48273, Stop: 48737, Start Num: 5

Candidate Starts for MrAaronian_77:

(Start: 5 @48273 has 58 MA's), (23, 48543), (35, 48651), (36, 48690), (43, 48705),

Gene: Mudcat_81 Start: 51268, Stop: 51672, Start Num: 5

Candidate Starts for Mudcat_81:

(Start: 5 @51268 has 58 MA's), (7, 51304), (11, 51382), (12, 51415), (17, 51475), (21, 51511), (25, 51565), (34, 51637),

Gene: NapoleonB_86 Start: 49942, Stop: 50346, Start Num: 5

Candidate Starts for NapoleonB_86:

(Start: 5 @49942 has 58 MA's), (7, 49978), (11, 50056), (12, 50089), (17, 50149), (21, 50185), (25, 50239), (34, 50311),

Gene: Nason_85 Start: 50574, Stop: 50978, Start Num: 5

Candidate Starts for Nason_85:

(Start: 5 @50574 has 58 MA's), (7, 50610), (11, 50688), (12, 50721), (17, 50781), (21, 50817), (25, 50871), (34, 50943),

Gene: Natasha_80 Start: 48586, Stop: 49020, Start Num: 4

Candidate Starts for Natasha_80:

(Start: 4 @48586 has 2 MA's), (13, 48748), (20, 48841), (22, 48865), (31, 48958),

Gene: Nightmare_77 Start: 50946, Stop: 51422, Start Num: 5

Candidate Starts for Nightmare_77:

(3, 50898), (Start: 5 @50946 has 58 MA's), (9, 51006), (16, 51147), (30, 51303), (41, 51387),

Gene: Niktson_76 Start: 50779, Stop: 51252, Start Num: 5

Candidate Starts for Niktson_76:

(Start: 5 @50779 has 58 MA's), (9, 50839), (30, 51136), (41, 51220),

Gene: Nivinsha_77 Start: 50059, Stop: 50526, Start Num: 5

Candidate Starts for Nivinsha_77:

(Start: 5 @50059 has 58 MA's), (9, 50119), (16, 50260), (26, 50371), (30, 50407), (47, 50515),

Gene: ProfFrink_77 Start: 48242, Stop: 48706, Start Num: 5

Candidate Starts for ProfFrink_77:

(Start: 5 @48242 has 58 MA's), (23, 48512), (35, 48620), (36, 48659), (43, 48674),

Gene: Raunak_78 Start: 47952, Stop: 48416, Start Num: 5

Candidate Starts for Raunak_78:

(Start: 5 @47952 has 58 MA's), (23, 48222), (35, 48330), (36, 48369), (43, 48384),

Gene: RustyBoy_81 Start: 48785, Stop: 49219, Start Num: 4

Candidate Starts for RustyBoy_81:

(Start: 4 @48785 has 2 MA's), (13, 48947), (20, 49040), (22, 49064), (31, 49157),

Gene: Salk_77 Start: 48256, Stop: 48720, Start Num: 5

Candidate Starts for Salk_77:

(Start: 5 @48256 has 58 MA's), (23, 48526), (35, 48634), (36, 48673), (43, 48688),

Gene: ScienceWizSam_77 Start: 50177, Stop: 50644, Start Num: 5

Candidate Starts for ScienceWizSam_77:

(Start: 5 @50177 has 58 MA's), (9, 50237), (30, 50525), (41, 50609), (47, 50633),

Gene: Shiba_76 Start: 47968, Stop: 48432, Start Num: 5

Candidate Starts for Shiba_76:

(Start: 5 @47968 has 58 MA's), (23, 48238), (36, 48385), (43, 48400),

Gene: Sloopyjoe_77 Start: 48275, Stop: 48739, Start Num: 5

Candidate Starts for Sloopyjoe_77:

(Start: 5 @48275 has 58 MA's), (23, 48545), (35, 48653), (36, 48692), (43, 48707),

Gene: Spain_77 Start: 48273, Stop: 48737, Start Num: 5

Candidate Starts for Spain_77:

(Start: 5 @48273 has 58 MA's), (23, 48543), (35, 48651), (36, 48690), (43, 48705),

Gene: StarLord_77 Start: 48268, Stop: 48732, Start Num: 5

Candidate Starts for StarLord_77:

(Start: 5 @48268 has 58 MA's), (23, 48538), (35, 48646), (36, 48685), (43, 48700),

Gene: Stardom_84 Start: 49332, Stop: 49736, Start Num: 5

Candidate Starts for Stardom_84:

(Start: 5 @49332 has 58 MA's), (7, 49368), (11, 49446), (12, 49479), (17, 49539), (21, 49575), (25, 49629), (34, 49701),

Gene: Stayer_77 Start: 48271, Stop: 48735, Start Num: 5

Candidate Starts for Stayer_77:

(Start: 5 @48271 has 58 MA's), (23, 48541), (35, 48649), (36, 48688), (43, 48703),

Gene: Synopsis_71 Start: 49985, Stop: 50452, Start Num: 5

Candidate Starts for Synopsis_71:

(Start: 5 @49985 has 58 MA's), (9, 50045), (16, 50186), (26, 50297), (30, 50333),

Gene: Tatanka_70 Start: 50163, Stop: 50630, Start Num: 5

Candidate Starts for Tatanka_70:

(Start: 5 @50163 has 58 MA's), (9, 50223), (18, 50373), (30, 50511), (41, 50595), (47, 50619),

Gene: Teacup_77 Start: 50837, Stop: 51313, Start Num: 5

Candidate Starts for Teacup_77:

(3, 50789), (Start: 5 @50837 has 58 MA's), (16, 51038), (30, 51194), (41, 51278),

Gene: Tenno_75 Start: 50552, Stop: 51028, Start Num: 5

Candidate Starts for Tenno_75:

(Start: 5 @50552 has 58 MA's), (14, 50729), (16, 50753), (30, 50909), (41, 50993),

Gene: Tribby_87 Start: 50701, Stop: 51105, Start Num: 5

Candidate Starts for Tribby_87:

(Start: 5 @50701 has 58 MA's), (7, 50737), (11, 50815), (12, 50848), (17, 50908), (21, 50944), (25, 50998), (34, 51070),

Gene: Trustiboi_74 Start: 50266, Stop: 50733, Start Num: 5

Candidate Starts for Trustiboi_74:

(Start: 5 @50266 has 58 MA's), (9, 50326), (16, 50467), (26, 50578), (30, 50614), (41, 50698),

Gene: Westerlin_73 Start: 51185, Stop: 51652, Start Num: 5

Candidate Starts for Westerlin_73:

(Start: 5 @51185 has 58 MA's), (9, 51245), (16, 51386), (30, 51533), (41, 51617), (47, 51641),

Gene: Xenomorph_80 Start: 50228, Stop: 50632, Start Num: 5

Candidate Starts for Xenomorph_80:

(Start: 5 @50228 has 58 MA's), (7, 50264), (11, 50342), (12, 50375), (17, 50435), (21, 50471), (25, 50525), (34, 50597),

Gene: YoshiYama_86 Start: 50980, Stop: 51384, Start Num: 5

Candidate Starts for YoshiYama_86:

(Start: 5 @50980 has 58 MA's), (7, 51016), (11, 51094), (12, 51127), (17, 51187), (21, 51223), (25, 51277), (34, 51349),

Gene: Zippen_82 Start: 50971, Stop: 51435, Start Num: 5

Candidate Starts for Zippen_82:

(Start: 5 @50971 has 58 MA's), (23, 51241), (39, 51397),