Pham 291642

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 291642 Report

This analysis was run 03/28/26 on database version 641.

Pham number 291642 has 15 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Chris_88
• Track 2 : Kratio_80
• Track 3 : Cain_94, Phrank_94, Bryler_86, Tierra_94
• Track 4 : Ximenita_93
• Track 5 : Syra333_90
• Track 6 : PhelpsODU_84, Unicorn_94
• Track 7 : Tigress9_92, Krueger_91
• Track 8 : Sunflower1121_91
• Track 9 : Shadow1_91
• Track 10 : TClif_87

*** **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 9 of the 14 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Bryler_86, Cain_94, Krueger_91, PhelpsODU_84, Phrank_94, Sunflower1121_91, Tierra_94, Tigress9_92, Unicorn_94, Ximenita_93,

Genes that have the "Most Annotated" start but do not call it:
• Shadow1_91,

Genes that do not have the "Most Annotated" start:
• Chris_88, Kratio_80, Syra333_90, TClif_87,

Summary by start number:

Start 7:
• Found in 4 of 15 (26.7%) of genes in pham
• Manual Annotations of this start: 1 of 14
• Called 25.0% of time when present
• Phage (with cluster) where this start called: Shadow1_91 (K6),

Start 8:
• Found in 11 of 15 (73.3%) of genes in pham
• Manual Annotations of this start: 9 of 14
• Called 90.9% of time when present
• Phage (with cluster) where this start called: Bryler_86 (K6), Cain_94 (K6), Krueger_91 (K6), PhelpsODU_84 (K6), Phrank_94 (K6), Sunflower1121_91 (K6), Tierra_94 (K6), Tigress9_92 (K6), Unicorn_94 (K6), Ximenita_93 (K6),

Start 10:
• Found in 1 of 15 (6.7%) of genes in pham
• Manual Annotations of this start: 1 of 14
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Chris_88 (K1),

Start 14:
• Found in 1 of 15 (6.7%) of genes in pham
• Manual Annotations of this start: 1 of 14
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Syra333_90 (K6),

Start 23:
• Found in 1 of 15 (6.7%) of genes in pham
• Manual Annotations of this start: 1 of 14
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Kratio_80 (K5),

Start 32:
• Found in 1 of 15 (6.7%) of genes in pham
• Manual Annotations of this start: 1 of 14
• Called 100.0% of time when present
• Phage (with cluster) where this start called: TClif_87 (K6),

Summary by clusters:

There are 3 clusters represented in this pham: K1, K6, K5,

Info for manual annotations of cluster K1:
•Start number 10 was manually annotated 1 time for cluster K1.

Info for manual annotations of cluster K5:
•Start number 23 was manually annotated 1 time for cluster K5.

Info for manual annotations of cluster K6:
•Start number 7 was manually annotated 1 time for cluster K6.
•Start number 8 was manually annotated 9 times for cluster K6.
•Start number 14 was manually annotated 1 time for cluster K6.
•Start number 32 was manually annotated 1 time for cluster K6.

Gene Information:
Gene: Bryler_86 Start: 53452, Stop: 54183, Start Num: 8

Candidate Starts for Bryler_86:
(Start: 8 @53452 has 9 MA's), (24, 53560), (33, 53599), (37, 53626), (38, 53635), (47, 53713), (52, 53746), (54, 53773), (57, 53818), (66, 53914), (73, 53977), (74, 53989), (78, 54019), (80, 54034), (81, 54064), (85, 54103), (88, 54160), (90, 54166),

Gene: Cain_94 Start: 56599, Stop: 57330, Start Num: 8
Candidate Starts for Cain_94:
(Start: 8 @56599 has 9 MA's), (24, 56707), (33, 56746), (37, 56773), (38, 56782), (47, 56860), (52, 56893), (54, 56920), (57, 56965), (66, 57061), (73, 57124), (74, 57136), (78, 57166), (80, 57181), (81, 57211), (85, 57250), (88, 57307), (90, 57313),

Gene: Chris_88 Start: 55802, Stop: 56641, Start Num: 10
Candidate Starts for Chris_88:
(1, 55541), (2, 55550), (3, 55559), (4, 55622), (5, 55703), (6, 55766), (9, 55787), (Start: 10 @55802 has 1 MA's), (11, 55817), (13, 55829), (18, 55868), (19, 55871), (27, 55946), (28, 55952), (42, 56099), (49, 56159), (50, 56165), (52, 56177), (53, 56189), (58, 56255), (63, 56279), (65, 56342), (66, 56345), (69, 56363), (70, 56366), (76, 56465), (78, 56483), (79, 56486), (80, 56498), (81, 56525), (84, 56555), (90, 56627),

Gene: Kratio_80 Start: 52503, Stop: 53210, Start Num: 23
Candidate Starts for Kratio_80:
(22, 52500), (Start: 23 @52503 has 1 MA's), (24, 52521), (39, 52617), (40, 52632), (43, 52650), (54, 52746), (61, 52809), (70, 52899), (75, 52971), (77, 52974), (81, 53028), (84, 53058), (86, 53100), (89, 53130),

Gene: Krueger_91 Start: 55693, Stop: 56526, Start Num: 8
Candidate Starts for Krueger_91:
(Start: 7 @55687 has 1 MA's), (Start: 8 @55693 has 9 MA's), (12, 55735), (15, 55747), (21, 55804), (24, 55843), (38, 55978), (43, 56020), (52, 56089), (54, 56116), (62, 56188), (66, 56257), (73, 56320), (74, 56332), (78, 56362), (80, 56377), (81, 56407), (82, 56428), (83, 56431), (85, 56446), (87, 56497), (88, 56503), (90, 56509),

Gene: PhelpsODU_84 Start: 52304, Stop: 53098, Start Num: 8
Candidate Starts for PhelpsODU_84:
(Start: 8 @52304 has 9 MA's), (12, 52346), (24, 52454), (26, 52457), (30, 52484), (35, 52526), (38, 52547), (41, 52583), (43, 52592), (46, 52625), (52, 52664), (60, 52757), (62, 52763), (64, 52784), (66, 52829), (67, 52841), (73, 52892), (78, 52934), (80, 52949), (81, 52979), (85, 53018), (88, 53075), (90, 53081),

Gene: Phrank_94 Start: 56586, Stop: 57317, Start Num: 8
Candidate Starts for Phrank_94:
(Start: 8 @56586 has 9 MA's), (24, 56694), (33, 56733), (37, 56760), (38, 56769), (47, 56847), (52, 56880), (54, 56907), (57, 56952), (66, 57048), (73, 57111), (74, 57123), (78, 57153), (80, 57168), (81, 57198), (85, 57237), (88, 57294), (90, 57300),

Gene: Shadow1_91 Start: 55827, Stop: 56666, Start Num: 7
Candidate Starts for Shadow1_91:
(Start: 7 @55827 has 1 MA's), (Start: 8 @55833 has 9 MA's), (12, 55875), (24, 55983), (38, 56118), (43, 56160), (52, 56229), (54, 56256), (62, 56328), (66, 56397), (73, 56460), (74, 56472), (78, 56502), (80, 56517), (81, 56547), (82, 56568), (83, 56571), (85, 56586), (87, 56637), (88, 56643), (90, 56649),

Gene: Sunflower1121_91 Start: 55592, Stop: 56425, Start Num: 8
Candidate Starts for Sunflower1121_91:

(Start: 7 @55586 has 1 MA's), (Start: 8 @55592 has 9 MA's), (12, 55634), (24, 55742), (38, 55877), (43, 55919), (52, 55988), (54, 56015), (62, 56087), (66, 56156), (73, 56219), (74, 56231), (78, 56261), (80, 56276), (81, 56306), (82, 56327), (83, 56330), (85, 56345), (87, 56396), (88, 56402), (90, 56408),

Gene: Syra333_90 Start: 55739, Stop: 56482, Start Num: 14
Candidate Starts for Syra333_90:
(Start: 14 @55739 has 1 MA's), (16, 55745), (21, 55787), (29, 55856), (31, 55868), (34, 55895), (41, 55961), (43, 55970), (46, 56003), (48, 56018), (52, 56042), (60, 56141), (62, 56147), (64, 56168), (66, 56213), (73, 56276), (74, 56288), (78, 56318), (80, 56333), (81, 56363), (82, 56384), (83, 56387), (85, 56402), (87, 56453), (88, 56459), (90, 56465),

Gene: TClif_87 Start: 55031, Stop: 55636, Start Num: 32
Candidate Starts for TClif_87:
(25, 54941), (Start: 32 @55031 has 1 MA's), (36, 55070), (44, 55124), (45, 55145), (48, 55172), (51, 55193), (55, 55241), (56, 55256), (59, 55274), (60, 55283), (66, 55358), (68, 55373), (70, 55379), (71, 55400), (72, 55412), (78, 55475), (81, 55520), (85, 55559), (87, 55610), (90, 55622),

Gene: Tierra_94 Start: 57212, Stop: 57943, Start Num: 8
Candidate Starts for Tierra_94:
(Start: 8 @57212 has 9 MA's), (24, 57320), (33, 57359), (37, 57386), (38, 57395), (47, 57473), (52, 57506), (54, 57533), (57, 57578), (66, 57674), (73, 57737), (74, 57749), (78, 57779), (80, 57794), (81, 57824), (85, 57863), (88, 57920), (90, 57926),

Gene: Tigress9_92 Start: 56021, Stop: 56854, Start Num: 8
Candidate Starts for Tigress9_92:
(Start: 7 @56015 has 1 MA's), (Start: 8 @56021 has 9 MA's), (12, 56063), (15, 56075), (21, 56132), (24, 56171), (38, 56306), (43, 56348), (52, 56417), (54, 56444), (62, 56516), (66, 56585), (73, 56648), (74, 56660), (78, 56690), (80, 56705), (81, 56735), (82, 56756), (83, 56759), (85, 56774), (87, 56825), (88, 56831), (90, 56837),

Gene: Unicorn_94 Start: 56932, Stop: 57726, Start Num: 8
Candidate Starts for Unicorn_94:
(Start: 8 @56932 has 9 MA's), (12, 56974), (24, 57082), (26, 57085), (30, 57112), (35, 57154), (38, 57175), (41, 57211), (43, 57220), (46, 57253), (52, 57292), (60, 57385), (62, 57391), (64, 57412), (66, 57457), (67, 57469), (73, 57520), (78, 57562), (80, 57577), (81, 57607), (85, 57646), (88, 57703), (90, 57709),

Gene: Ximenita_93 Start: 56440, Stop: 57225, Start Num: 8
Candidate Starts for Ximenita_93:
(Start: 8 @56440 has 9 MA's), (17, 56521), (20, 56536), (21, 56539), (34, 56647), (41, 56713), (43, 56722), (46, 56755), (48, 56770), (52, 56794), (55, 56839), (60, 56887), (62, 56893), (64, 56914), (66, 56959), (73, 57022), (74, 57034), (78, 57064), (80, 57079), (81, 57109), (82, 57130), (83, 57133), (85, 57148), (88, 57205), (90, 57211),