

Chrna1 - orthosteric region (alpha-1 positions 187-200)

>NC_044037.1:223677047-223677226 *Microcaecilia unicolor* chromosome 7, a*Microcaecilia unicolor*1.1, whole genome shotgun sequence

CGCGTAGACTACTCCTGCTGTCCGGAACTCCGTATCTGGAT

>NC_042620.1:115850301-115850480 *Rhinatrema bivittatum* chromosome 6, a*Rhinatrema bivittatum*1.1, whole genome shotgun sequence

CGGGTGAAGTACTCCTGCTGTGGAGATACTCCATACCTGGAT

>*Caudacaecilia asplenia*_ZRC1.10835

GACATATACTATTCCTGCTGTCCGGATACTCCCTATCTGGAT

>*Ichthyophis glutinosus*_WHT5508

TACGTAACTATAGCTGCTGTCCGGAACTCCCTACCTGGAT

>*Ichthyophis kohtaoensis*

AACATATCCTATGCCTGCTGTCTGGAGACTCCCTATCTGGAT

>*Ichthyophis garoensis*_BNHS2208

AACATATCCTATGCCTGCTGTCCGGAACTCCCTATCTGGAT

>*Ichthyophis sendenyu*_BNHS2209

AACATATCCTATGCCTGCTGTCTGGAACTCCCTATCTGGAT

>*Ichthyophis orthoplicatus*_DNMMW1723

TACGTAACTATAGCTGCTGTCCGGAACTCCCTACCTGGAT

>*Uraeotyphlus* cf. *malabaricus*_UKMW1711

TACGTAACTATGCCTGCTGTCCAGAACTCCCTATCTGGAT

>*Uraeotyphlus* cf. *oxyurus*_UK MW212

TACGTAACTATGCCTGCTGTCTGGAACTCCCTATCTGGAT

>*Scolecophorus uluguruensis*_BMNH2002.099

TATGTATACTACGCCTGCTGTCCAGAACTCCATATCTGGAT

>*Scolecophorus vittatus* CAS168810

TACGTATACTACGCCTGCTGTCCAGAACTCCGTATCTGGAT

>*Herpele squalostoma*_BMNH2000.096

TACGTGTACTATGCCTGCTGTCCGAACACGCCGTACCTGGAC

>*Boulengerula boulengeri*_RAN31530

TACGTGTACTACGCCTGCTGTCTAGAACTCCATACCTGGAC

>*Chthonerpeton indistinctum*_MCPMW15

TACGTGCACTACGCCTGCTGTCCAGAACTCCTTATCTGGAC

>*Typhlonectes compressicauda*_UMFS11776

TATGTGACTTACTCCTGCTGTCCAGATACTCCTTATCTGGAT

>*Typhlonectes natans*_BMNH2000.218.

TATGTGAAGTACTCCTGCTGTCCAGATACTCCTTATCTGGAT

>*Potomotyphlus kaupii*_UMFS11777

TATGTGACTTACTCCTGCTGTCCAGATACTCCTTATCTGGAT

>*Caecilia abitaquae*_MZUTI4030

TACGTGACCTACGCCTGCTGTCTAGAACTCCTTATCTGGAT

>*Caecilia guntheri*_MZUTI3039

AACGTGACCTACGCCTGCTGTCTAGAACTCCTTATCTGGAT

>*Caecilia orientalis*_MZUTI1371

TACGTGACCTACGCCTGCTGTCCAGAACTCCTTATCTGGAT

>*Caecilia tentaculata*_MZUTI3919

AACGTGACCTACTCCTGCTGTGGAGAACTCCTTATCTGGAT

>Gegeneophis ramaswamii_UKMW331
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 >Hypogeophis rostratus_RAN31441
 TACGTAACCTACGCCTGCTGTCCAGACCTTCCATATCTGGAT
 >Praslinia cooperi_RAN31305
 TACGTAACCTACGCCTGTTGTCCAGACCTTCCATATCTGGAT
 >Hypogeophis alternans_RAN 31465
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 >Siphonops paulensis_CHUNB39114
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 >Chikila gaiduwani_BNHS2211
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 >Chikila alcocki_BNHS2210
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 >Hypogeophis pti_SM295
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 >Hypogeophis larvatus_SM297
 NNNNNNACATACGCCTGCTGTCCAGACCTTCCATATCTGGAT
 >Hypogeophis brevis_SM691
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 >CM030321.1:437425379-437425558 Ambystoma mexicanum strain DD151 chromosome
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 TRINITY_DN300233_c9_g1::TRINITY_DN300233_c9_g1_i1::g.365642 ORF type:5prime_partial
 len:487 (+) TRINITY_DN300233_c9_g1_i1:1-1461(+) parent_contig=Trinity_Pw_v2
 TGGGTGTATTATGCATGTTGTCAGGAAACACCATACTTGGAC
 >CAJPDP013104969.1:36-215 Bombina variegata variegata genome assembly, contig:
 contig_3104969, whole genome shotgun sequence
 TGGGTTTATTACGCCTGCTGTCCTGACACCCCATATCTGGAT
 >LR991673.1:183921276-183921455 Bufo bufo genome assembly, chromosome: 7
 TGGGTCACATACACATGCTGTCCTGATGTACCATACTTGGAT

>CM026472.1:34540173-34540352 *Bufo gargarizans* isolate SCDJY-AF-19 chromosome 8, whole genome shotgun sequence
TGGGTCACATACACATGCTGTCTTAACGTACCATACTTGGAT

>CM033648.1:76491222-76491401 *Engystomops pustulosus* isolate 237g6f4 chromosome 8, whole genome shotgun sequence
TATGTTTTCTATGACTGCTGCCCTGATAAACCATATCTGGAT

>ONZH01026881.1:670711-670890 *Rhinella marina* genome assembly, contig: ctg3915_RHIMB_RM170330.3915, whole genome shotgun sequence
GGGGTCGAATACACATGCTGTCCTGACGTCCCATACTTGGAT

>VIAB01000030.1:258890-259069 *Oophaga pumilio* Sca30, whole genome shotgun sequence
TGGGTCACATATGCCTGCTGCCCCGATGTCCCATACTTGGAT

>CM034095.1:51234791-51234970 *Eleutherodactylus coqui* isolate HN-11 Male chromosome 10, whole genome shotgun sequence
TGGGTCACATATGCGTGCTGTCCGGATGTCCCATACTTGGAT

>KN905892.1:795302-795481 *Nanorana parkeri* isolate BGI_ZX_2015 unplaced genomic scaffold scaffold44, whole genome shotgun sequence
TGGGTTTTCTATACCTGCTGTCCTGACGTTCCATACCTGGAC

>JAE0BE010700063.1:713-892 *Phrynoglossus myanhessei* voucher SMF 103841 isolate Holotype NODE_4282317_length_3454_cov_14.630863, whole genome shotgun sequence
TGGGTTTACTATGGTTGCTGTCCTGATGTCCCATACCTGGAC

>WWET01001398.1:49535-49714 *Limnodynastes dumerilii* isolate SAMAR66870 scaffold001398, whole genome shotgun sequence
TGGGTCACATACACATGCTGCCCTGATGTCCCCTACTTAGAT

>JABWIB010022546.1:4978-5157 *Platyplectrum ornatum* isolate SVE-2020 scaffold_22545, whole genome shotgun sequence
TGGGTTACATACACGTGCTGTCCTGATGTTCCATACCTGGAT

>CM032236.1:50885104-50885283 *Leptobrachium ailaonicum* isolate 2019-ailao-v1_NWPU chromosome 3, whole genome shotgun sequence
TGGGTTTATTATGACTGCTGCCTTGATACGCCTTACCTGGAT

>CM033477.1:122732597-122732776 *Hymenochirus boettgeri* isolate Female2 chromosome 9, whole genome shotgun sequence
TGGGTGTATTATGACTGCTGCCCGGAAACACCATATCTAGAC

>JAKJIM010035931.1:697-876 *Pipa carvalhoi* isolate CFBHT 2225 *Pipa carvalhoi*_contig_35931, whole genome shotgun sequence
TGGGTTTATTATGATTGTTGTCCTGATACACCATACCTGGAT

>CM030356.1:77401314-77401493 *Xenopus laevis* strain J_2021 chromosome 9_10L, whole genome shotgun sequence
TGGGTTTATTATGACTGCTGCCAGAAACACCATACTTGGAT

>CM004451.2:66280523-66280702 *Xenopus tropicalis* strain Nigerian chromosome 9, whole genome shotgun sequence
TGGGTTTATTATGACTGTTGCCAGAAACGCCATACTTGGAT

>CM016422.1:54052159-54052338 *Pyxicephalus adspersus* isolate 1538 chromosome 7, whole genome shotgun sequence
TGGGTTTGTTATTCTTGTTGTCCAGACGTTCCATACCTGGAC

>BLSH010491879.1:618965-619144 *Glandirana rugosa* DNA, scaffold10449653_len1176436_cov66_read141_ma xK112, whole genome shotgun sequence

TGGGTGGTCTATGACTGCTGCCCTGACACACCATACTTGGAT
 >LR991685.1:163324039-163324218 *Rana temporaria* genome assembly, chromosome: 6
 TGGGTCGTCTATGACTGCTGTCCTGACACACCATACTTGGAT
 >KV992222.1:13352-13531 *Lithobates catesbeianus* isolate Bruno unplaced genomic scaffold
 Rc-01r160223s0069667, whole genome shotgun sequence
 TGGGTCGTCTATGACTGCTGTCCTGACACACCATACTTGGAT
 >VKOB010690764.1:40-219 *Scaphiopus holbrookii* voucher NCSM:84231 6967497, whole
 genome shotgun sequence
 TGGGTTTATTATACCTGCTGCCCCGATAAGCCATACCTAGAC
 >VKNZ010744601.1:18-197 *Spea bombifrons* voucher NCSM:84228 4498154, whole genome
 shotgun sequence
 TGGGTTTATTATGACTGCTGTCCAACCAAACCGTACCTGGAC

Chrna1 - alpha-1 positions 180-186
 >CM030321.1:437425379-437425558 *Ambystoma mexicanum* strain DD151 chromosome
 9q, whole genome shotgun sequence
 GATTACCGAGGTTGGAAACAC
 >CAJPD013104969.1:36-215 *Bombina variegata* genome assembly, contig:
 contig_3104969, whole genome shotgun sequence
 GACAACCGCTGTTGGAAGCAT
 >LR991673.1:183921276-183921455 *Bufo bufo* genome assembly, chromosome: 7
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 >CM026472.1:34540173-34540352 *Bufo gargarizans* isolate SCDJY-AF-19 chromosome 8,
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 >CM034095.1:51234791-51234970 *Eleutherodactylus coqui* isolate HN-11 Male
 chromosome 10, whole genome shotgun sequence
 GATTACCGCTGCTGGAAACAT
 >CM033648.1:76491222-76491401 *Engystomops pustulosus* isolate 237g6f4 chromosome 8,
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 >BLSH010491879.1:618965-619144 *Glandirana rugosa* DNA,
 scaffold10449653_len1176436_cov66_read141_ma xK112, whole genome shotgun sequence
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 >CM033477.1:122732597-122732776 *Hymenochirus boettgeri* isolate Female2 chromosome
 9, whole genome shotgun sequence
 GATTATCGTTGCTGGAAGCAC
 >CM032236.1:50885104-50885283 *Leptobrachium ailaonicum* isolate 2019-ailao-v1_NWPU
 chromosome 3, whole genome shotgun sequence
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 GATTATCAGTGCTGGAAGCAC
 >KV992222.1:13352-13531 *Lithobates catesbeianus* isolate Bruno unplaced genomic scaffold
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 GATTATCAATGCTGGAAGCAT
 >KN905892.1:795302-795481 *Nanorana parkeri* isolate BGI_ZX_2015 unplaced genomic

scaffold scaffold44, whole genome shotgun sequence
GATTATCAGTGCTGGAAGCAT
>VIAB01000030.1:258890-259069 *Oophaga pumilio* Sca30, whole genome shotgun sequence
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>JAE0BE010700063.1:713-892 *Phrynoglossus myanhessei* voucher SMF 103841 isolate
Holotype NODE_4282317_length_3454_cov_14.630863, whole genome shotgun sequence
GATTATCAATGTTGGAAGCAT
>JAKJMM010035931.1:697-876 *Pipa carvalhoi* isolate CFBHT 2225
*Pipa carvalhoi*_contig_35931, whole genome shotgun sequence
GACTATCGATGCTGGAAACAC
>JABWIB010022546.1:4978-5157 *Platyplectrum ornatum* isolate SVE-2020 scaffold_22545,
whole genome shotgun sequence
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GATTACCGAGGTTGGAAACAC
>CM016422.1:54052159-54052338 *Pyxicephalus adspersus* isolate 1538 chromosome 7,
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GATTATCGCTGTTGGAAACAC
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genome shotgun sequence
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shotgun sequence
GATTATCGATGCTGGAAGCAT
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genome shotgun sequence
GATTATCGCTGCTGGAAGCAC
>CM004451.2:66280523-66280702 *Xenopus tropicalis* strain Nigerian chromosome 9, whole
genome shotgun sequence
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>Ichthyophis garoensis_BNHS2208
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>Ichthyophis sendenyu_BNHS2209
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>Scolecomorphus uluguruensis_BMNH2002.099
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>Scolecomorphus vittatus_CAS168810
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>Herpele squalostoma_BMNH2000.096
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>Typhlonectes compressicauda_UMFS11776
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>Typhlonectes natans_BMNH2000.218.
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>Potomotyphlus kaupii_UMFS11777
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>Caecilia abitaguae_MZUTI4030
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>Praslinia cooperi_RAN31305
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>Hypogeophis alternans_RAN 31465
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 >Chikila alcocki_BNHS2210
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 >Chikila gaiduwani_BNHS2211
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 >Hypogeophis brevis_SM691

 >Hypogeophis larvatus_SM297

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>WWET01001398.1:49535-49714 *Limnodynastes dumerilii* isolate SAMAR66870 scaffold001398, whole genome shotgun sequence
ATCACCTTCATTCCTCCTG

>KV992222.1:13352-13531 *Lithobates catesbeianus* isolate Bruno unplaced genomic scaffold Rc-01r160223s0069667, whole genome shotgun sequence
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ATCACCTATCATTCCTGATG

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ATCACTTACCACTTTCTCTTA

>JABWIB010022546.1:4978-5157 *Platyplectrum ornatum* isolate SVE-2020 scaffold_22545, whole genome shotgun sequence
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>CM016422.1:54052159-54052338 *Pyxicephalus adspersus* isolate 1538 chromosome 7, whole genome shotgun sequence
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>LR991685.1:163324039-163324218 *Rana temporaria* genome assembly, chromosome: 6
ATCACCTATCATTCCTCATG

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ATCACCTACCACTTCGTCCTA

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ATCACCTACCACTTTATCCTA

>VKNZ010744601.1:18-197 *Spea bombifrons* voucher NCSM:84228 4498154, whole genome shotgun sequence
ATCACCTACCACTTTGTGCTG

>CM030356.1:77401314-77401493 *Xenopus laevis* strain J_2021 chromosome 9_10L, whole

genome shotgun sequence

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>CM004451.2:66280523-66280702 *Xenopus tropicalis* strain Nigerian chromosome 9, whole

genome shotgun sequence

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>*Epicrionops* sp._UMMZ_RAN26114

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>*Rhinatrema bivittatum*_XM_029605825.1

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>*Caudacaecilia asplenia*_ZRC1.10835

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>*Ichthyophis kohtaoensis*_

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>*Ichthyophis garoensis*_BNHS2208

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>*Ichthyophis sendenyu*_BNHS2209

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>*Ichthyophis orthoplicatus*_DNMMW1723

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>*Ichthyophis glutinosus*_WHT5508

ATCACCTACCATTTCCTGATG

>*Uraeotyphlus* cf. *malabaricus*_UKMW1711

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>*Uraeotyphlus* cf. *malabaricus*_UKMW1711

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>*Scolecormorphus vittatus*_CAS168810

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>*Herpele squalostoma*_BMNH2000.096

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>*Boulengerula boulengeri*_RAN31530

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>*Chthonerpeton indistinctum*_MCPMW15

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>*Typhlonectes natans*_BMNH2000.218.

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>*Potomotyphlus kaupii*_UMFS11777

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>*Caecilia guntheri*_MZUTI3039

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 >Siphonops paulensis_CHUNB39114
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 >Schistometopum thomense_RAN31503
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 >Geotrypetes seraphini_XM_033946945.1
 ATCACGTATCACTTCCTGATG
 >Dermophis mexicanus_RAN31534
 ATCACTTATCACTTCCTGATG
 >Gymnopsis syntrema_RAN31499
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 >Chikila alcocki_BNHS2210
 ATCACCTACCACTT-----
 >Chikila gaiduwani_BNHS2211
 ATCACCTACCACTT-----
 >Hypogeophis pti_SM295
 ATCACTTATCACTTCC-----
 >Hypogeophis brevis_SM691
 ATCACTTATCACTTCC-----
 >Hypogeophis larvatus_SM297
 ATCACTTATCACTTCC-----

Chrna2

>Pleurodeles waltl_
 ACCAAGAAGTATGACTGCTGCACGGAGATCTACCCGGACATC
 >Ambystoma mexicanum_SuperContig_183730
 ACCAAGAAGTACGACTGCTGCACTGAGATCTACCCTGATATC
 >Bufo bufo_XM_040427115.1

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>Nanorana_parkeri_XM_018570301.1
TCTAAGAAATATGATTGCTGCACGGAAATTTACCCTGATATT
>Xenopus_tropicalis_XM_004914941.4
TCCAAGAAATACGACTGTTGCACGGAAATCTATCCAGATATC
>Rhinatrema_bivittatum_XM_029596210.1
ACTAAAAAGTATGACTGCTGCACTGAAATCTACCCAGACATC
>Microcaecilia_unicolor_XM_030195550.1
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>Geotrypetes_seraphini_XM_033939894.1
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Chrna4

>Pleurodeles_waltl_
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>Ambystoma_mexicanum_SuperContig_16675
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>Bufo_bufo_XM_040435648.1
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>Nanorana_parkeri_XM_018560101.1
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>Xenopus_tropicalis_NM_001113843.1
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>Rhinatrema_bivittatum_XM_029613401.1
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>Microcaecilia_unicolor_XM_030212004.1
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>Geotrypetes_seraphini_XM_033939894.1
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